



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: MINIPC

Test Model: KSM1

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan



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A.1 -20dB Bandwidth

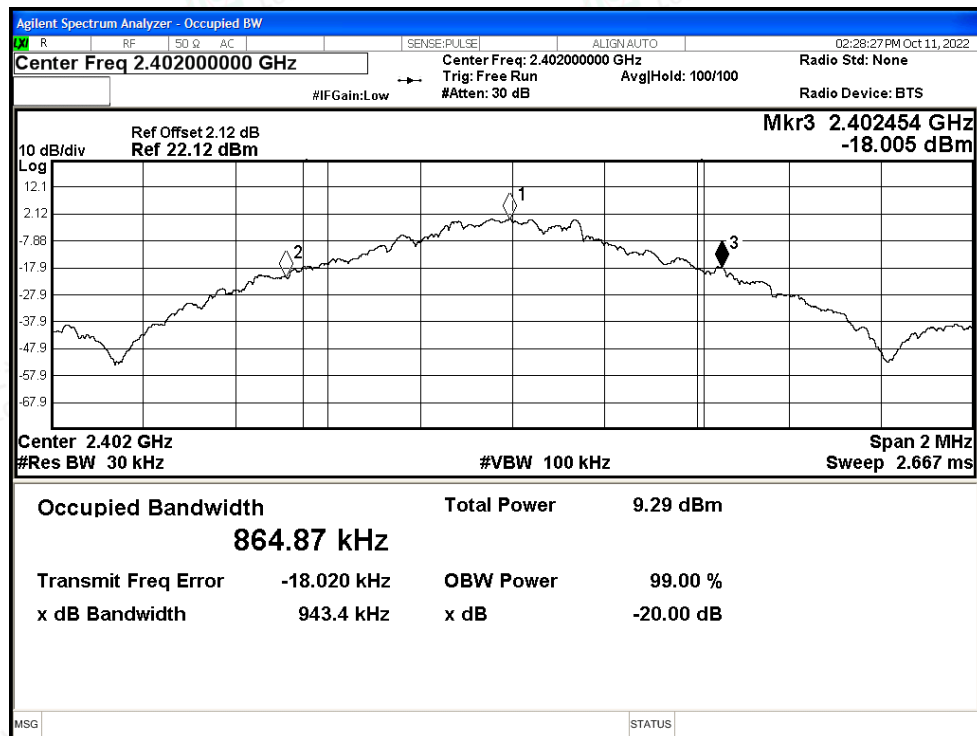
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.943	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.96	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.953	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.43	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.429	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.491	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.482	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.478	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.479	N/A	Pass



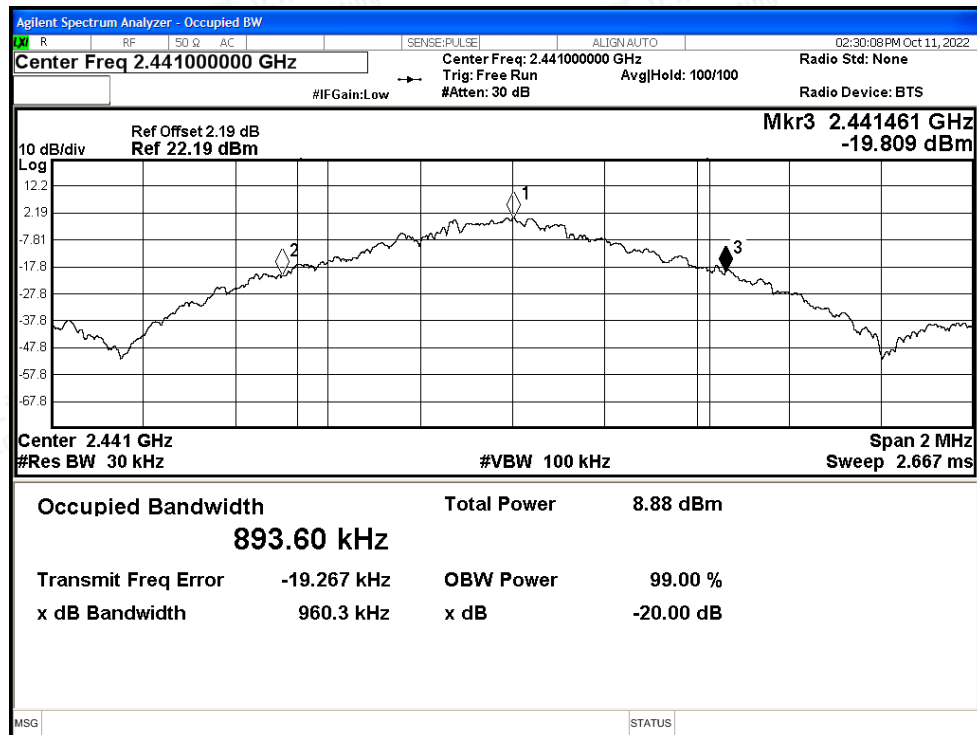


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

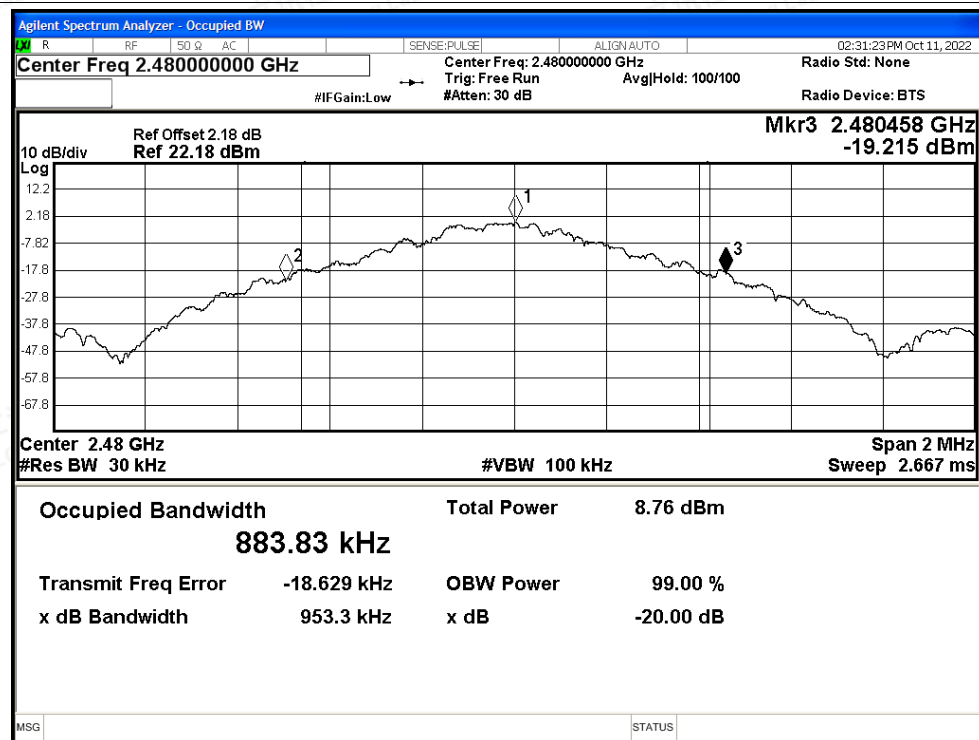


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

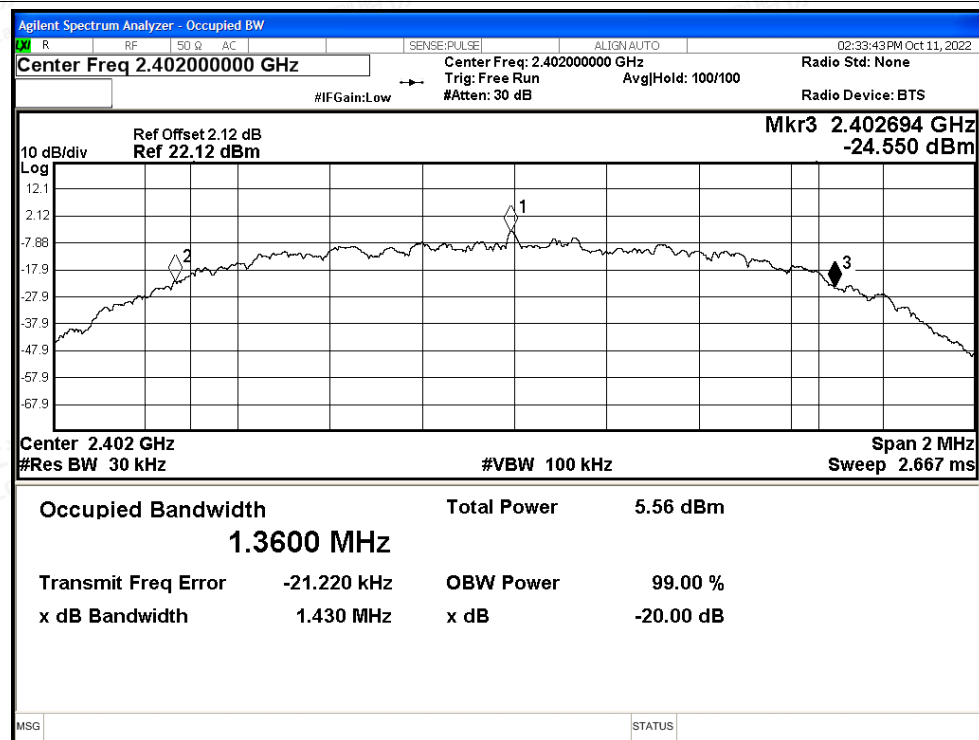




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

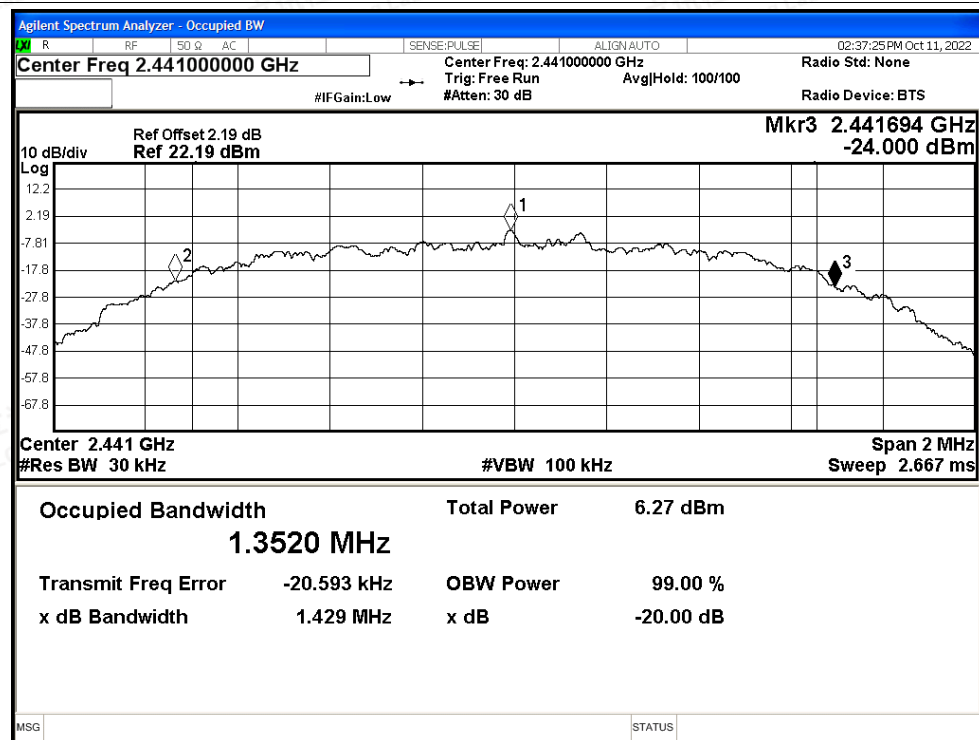


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

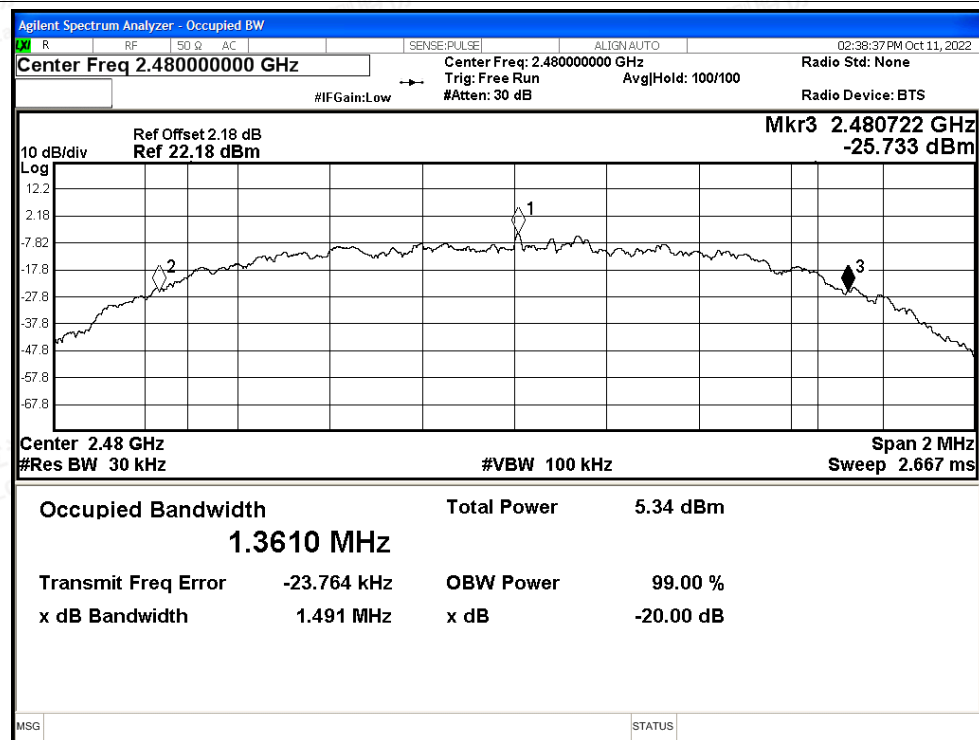




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

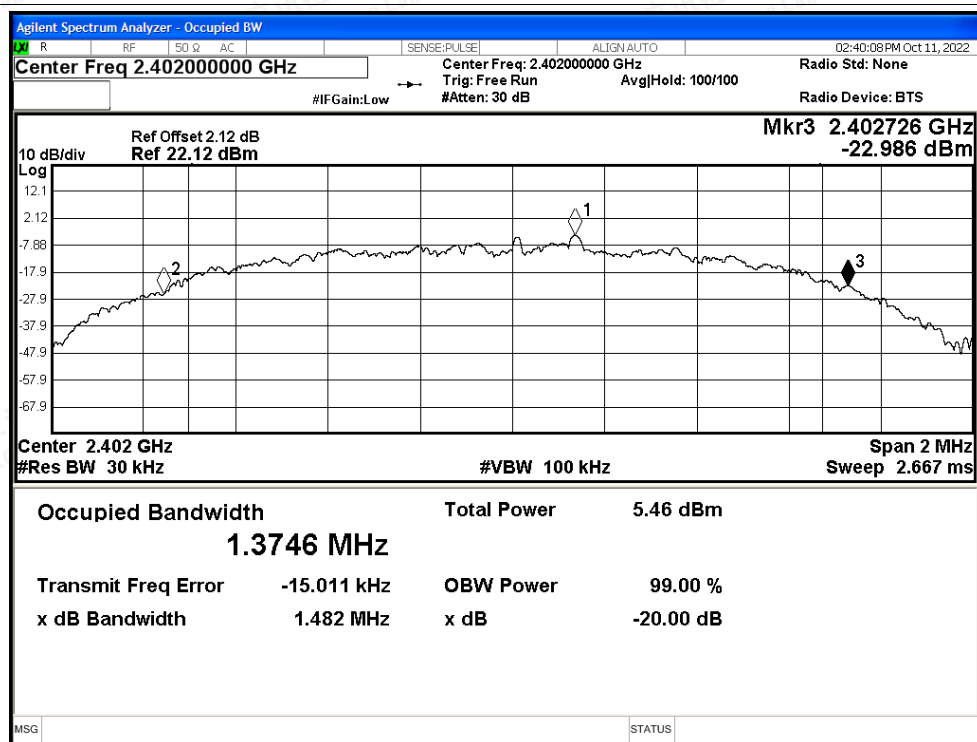


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

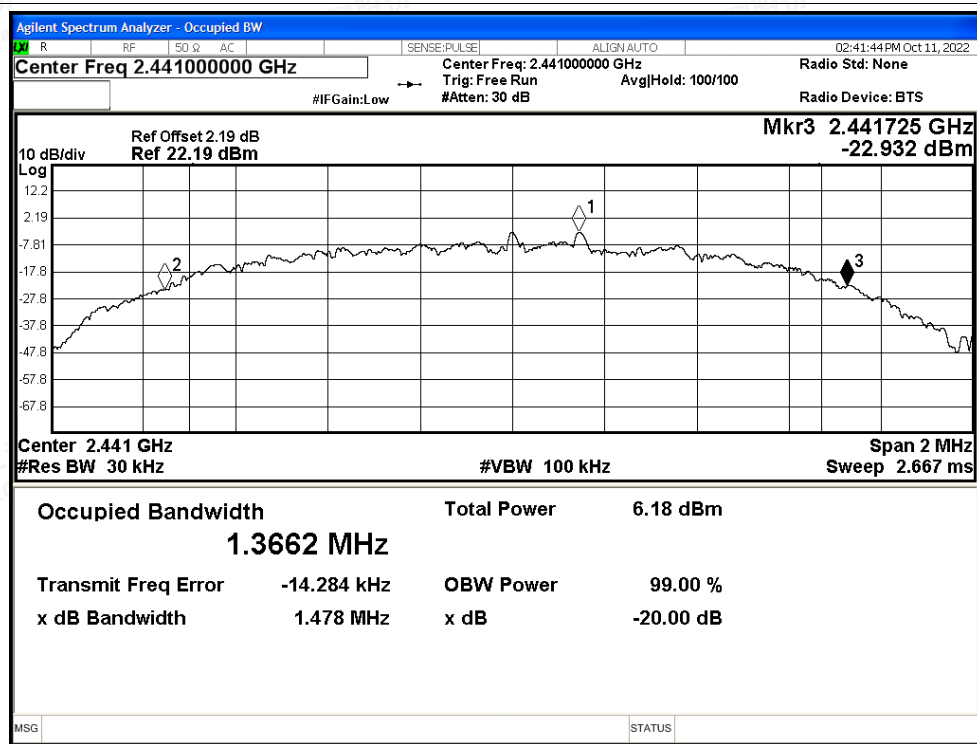




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

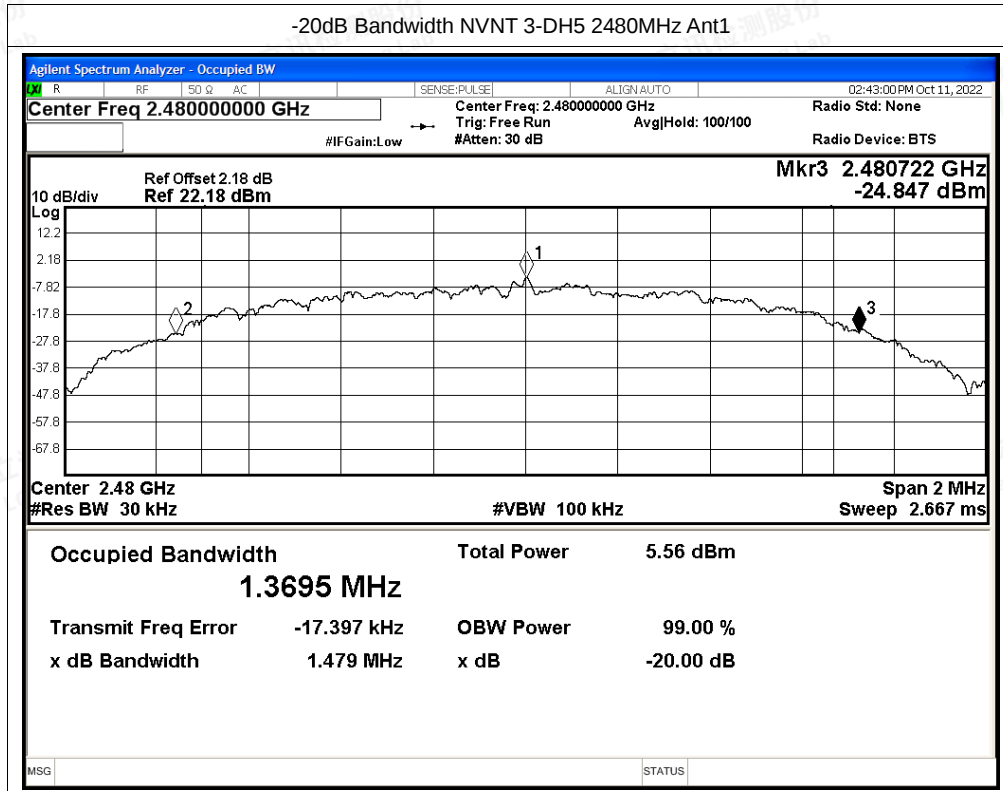


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A.2 Maximum Conducted Output Power

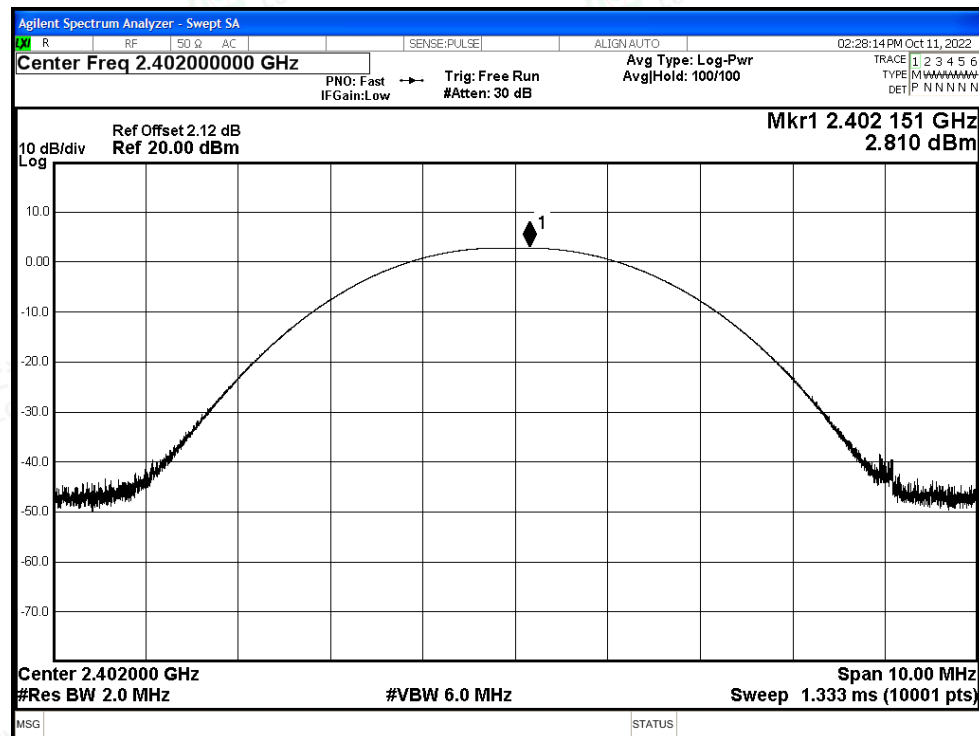
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.81	21	Pass
NVNT	1-DH5	2441	Ant1	2.96	21	Pass
NVNT	1-DH5	2480	Ant1	2.39	21	Pass
NVNT	2-DH5	2402	Ant1	0.62	21	Pass
NVNT	2-DH5	2441	Ant1	1.04	21	Pass
NVNT	2-DH5	2480	Ant1	0.5	21	Pass
NVNT	3-DH5	2402	Ant1	0.78	21	Pass
NVNT	3-DH5	2441	Ant1	1.27	21	Pass
NVNT	3-DH5	2480	Ant1	0.73	21	Pass



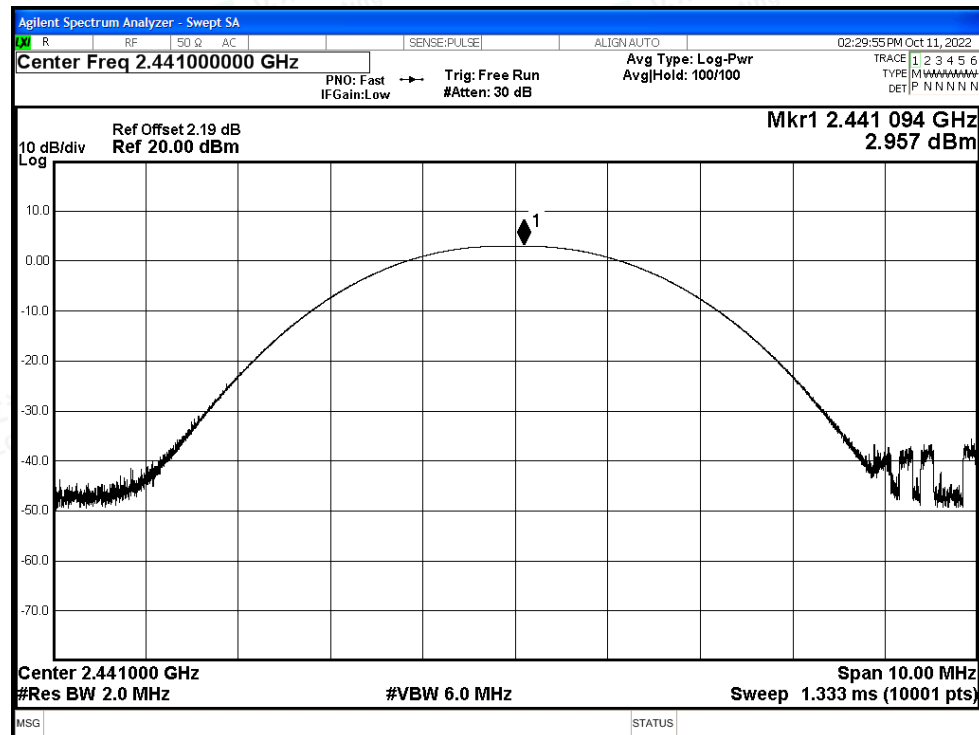


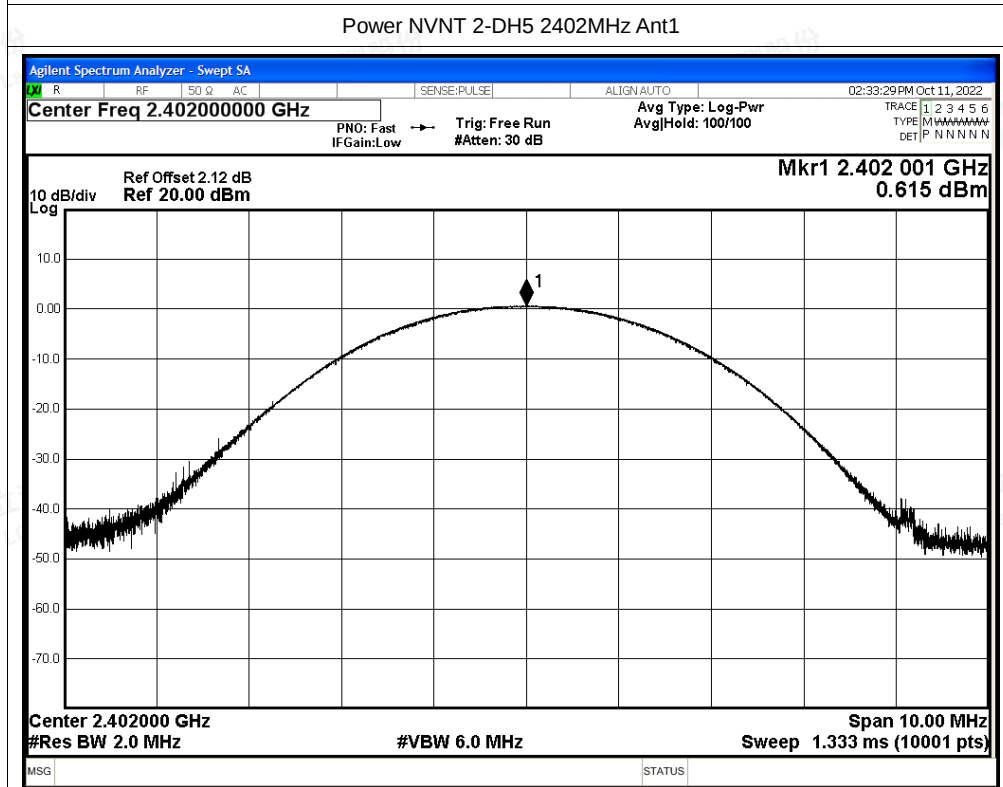
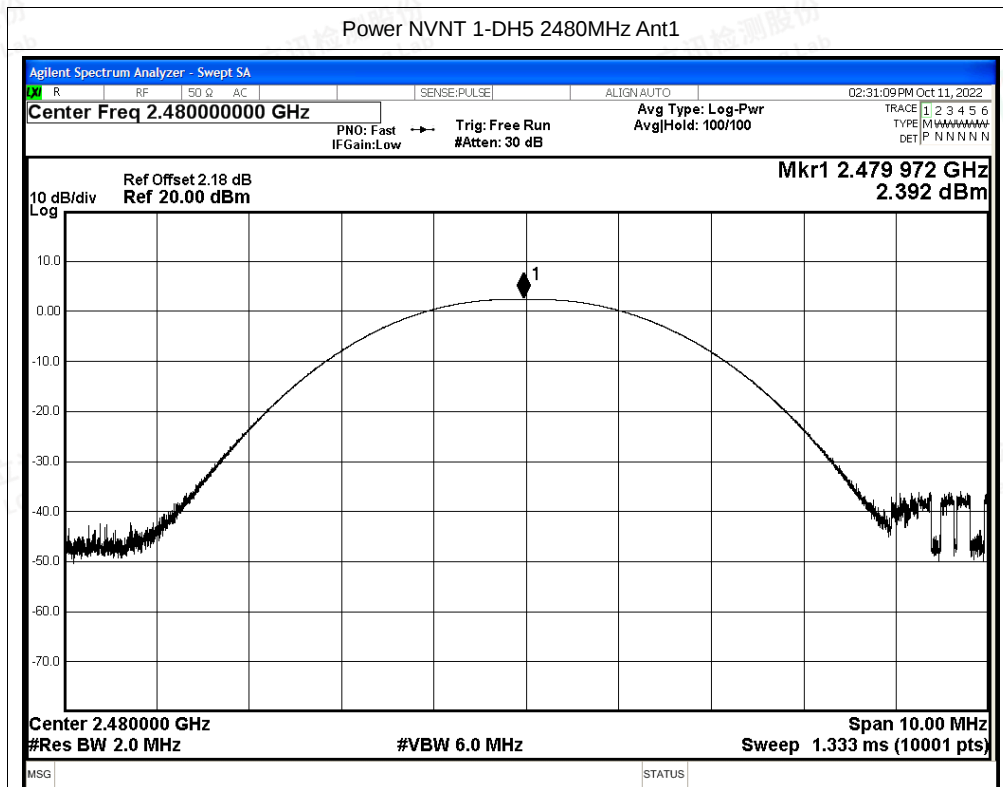
Test Graphs

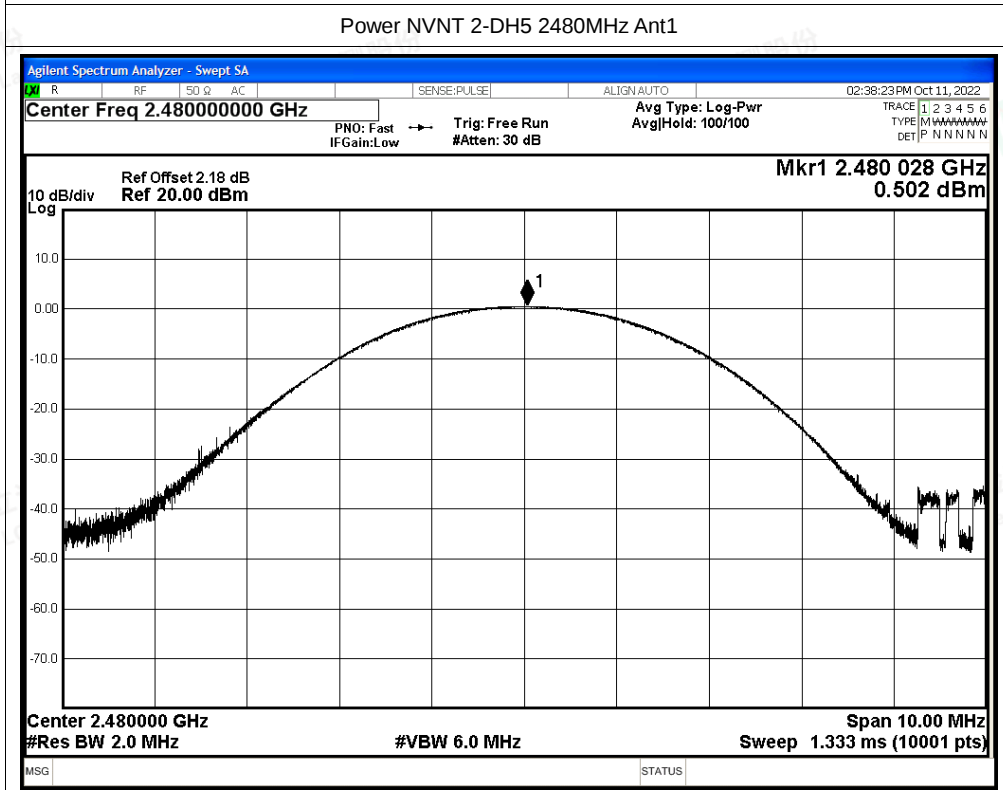
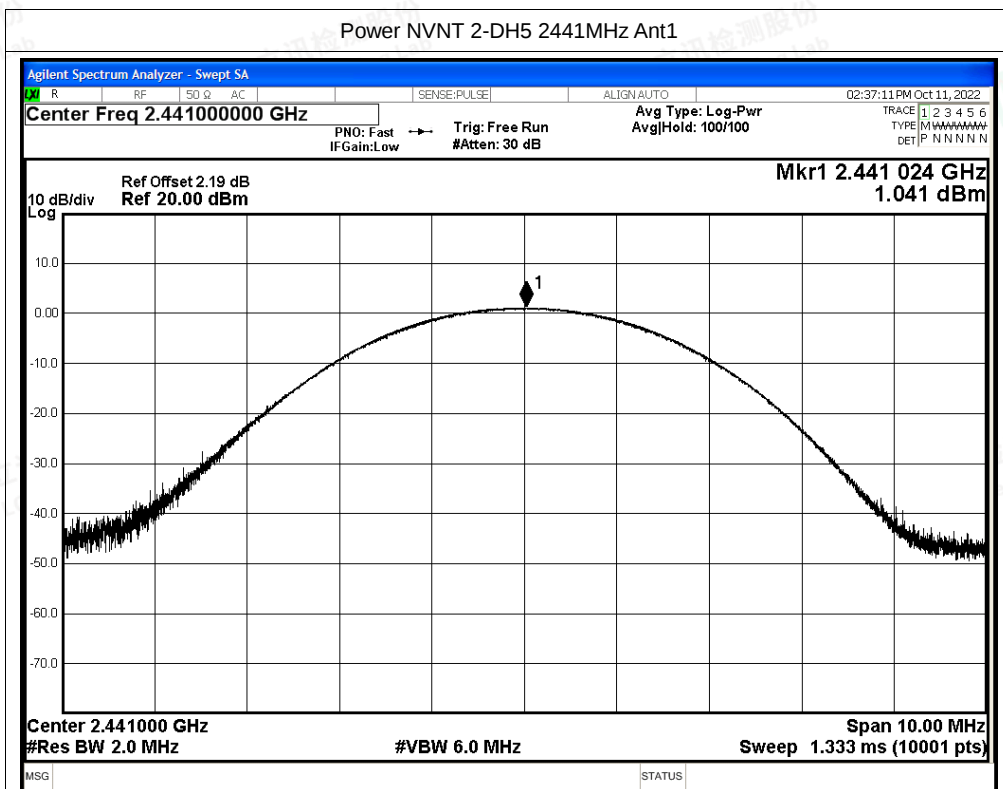
Power NVNT 1-DH5 2402MHz Ant1

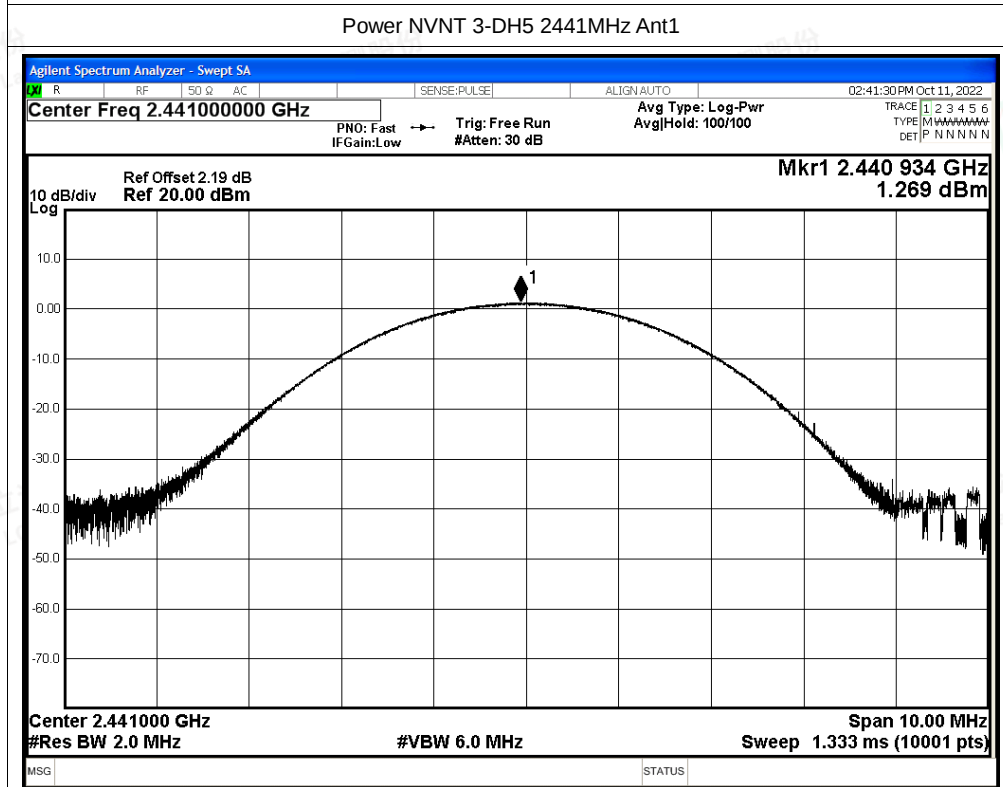
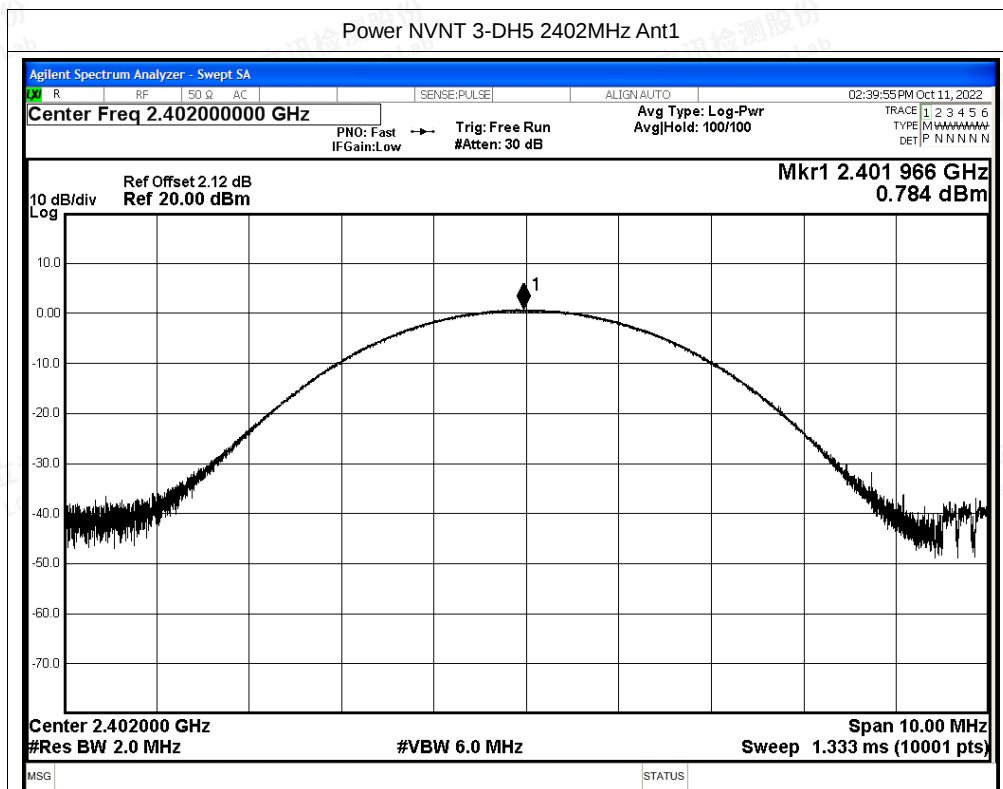


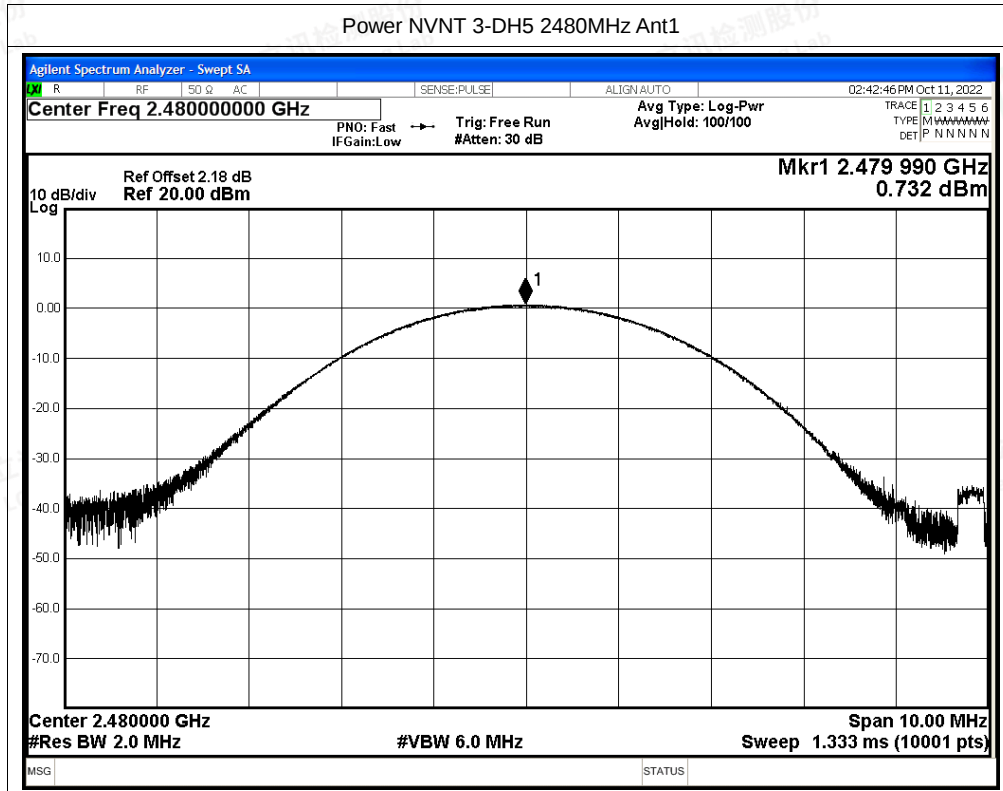
Power NVNT 1-DH5 2441MHz Ant1













A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.994	2403.142	1.148	0.629	Pass
NVNT	2-DH5	Ant1	2402	2402.994	0.994	0.953	Pass
NVNT	3-DH5	Ant1	2401.994	2403.14	1.146	0.988	Pass

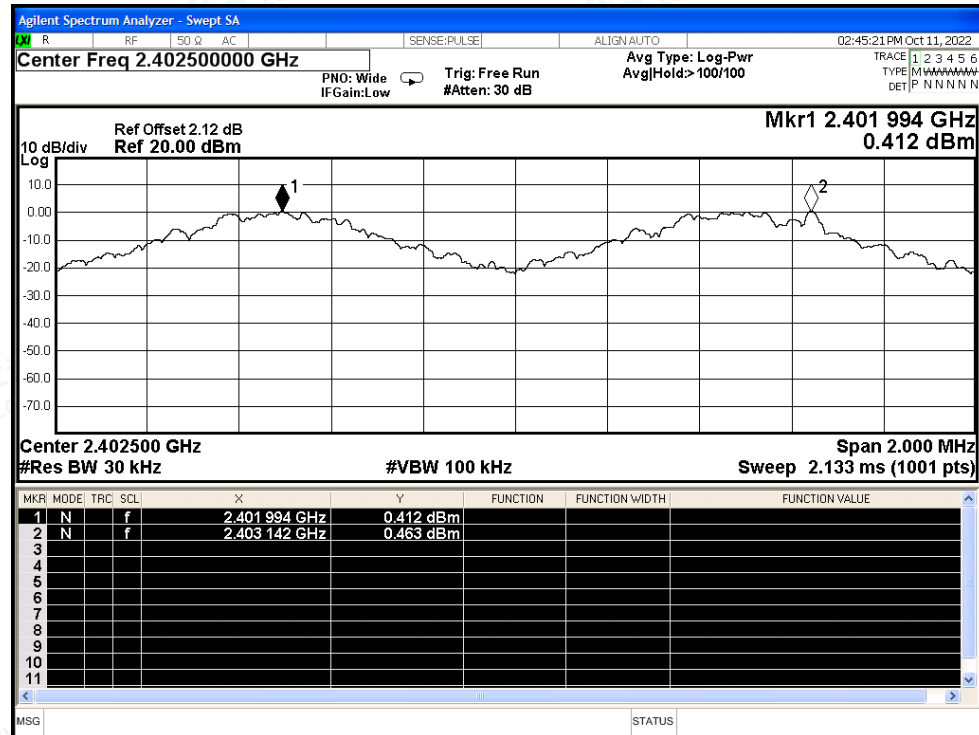


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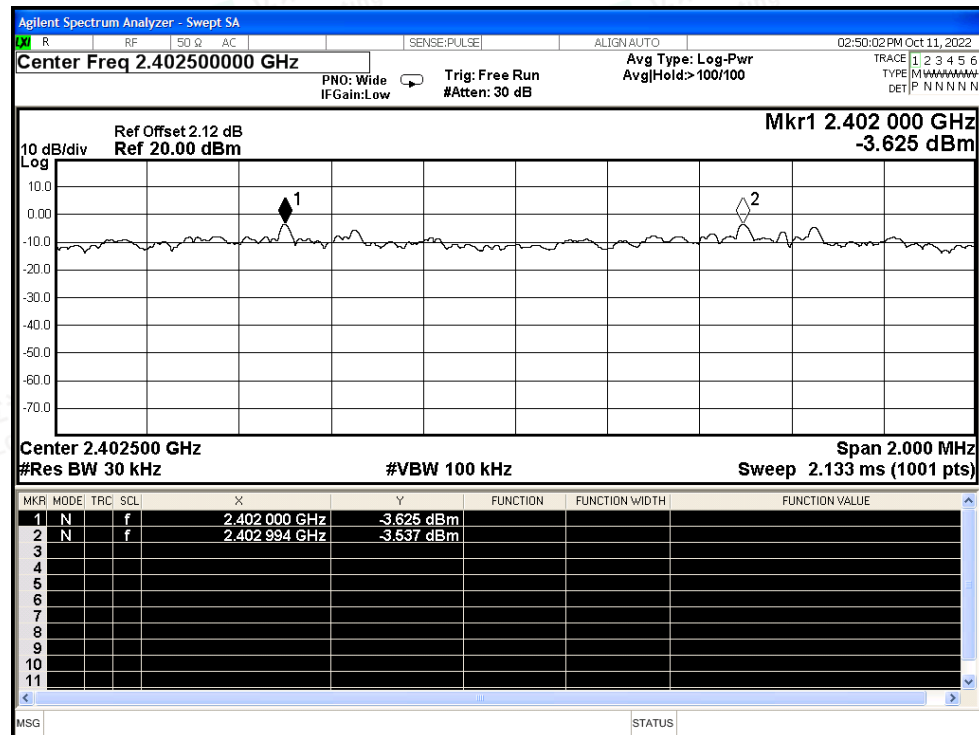


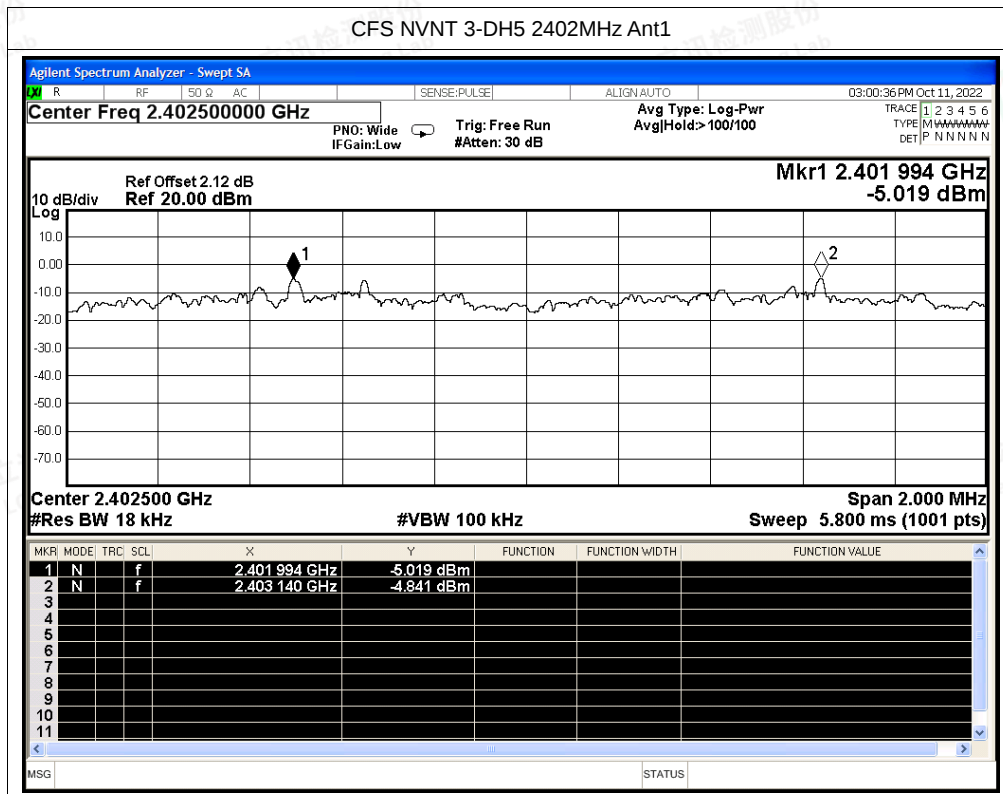
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1







A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.883	314.247	109	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.889	283.122	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.891	268.863	93	31600	400	Pass

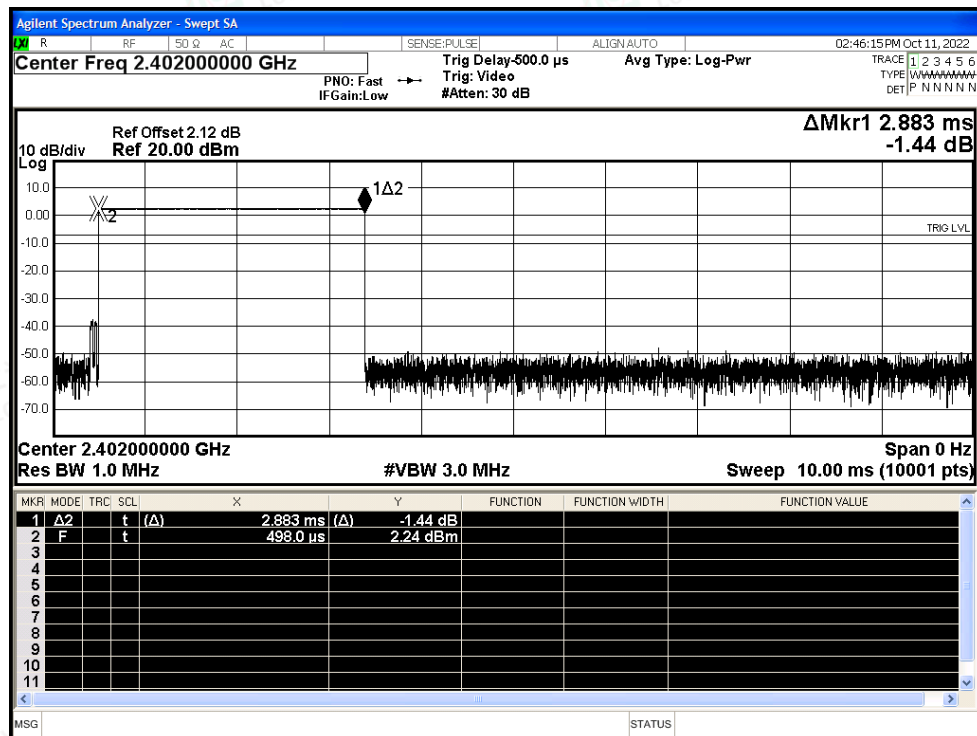


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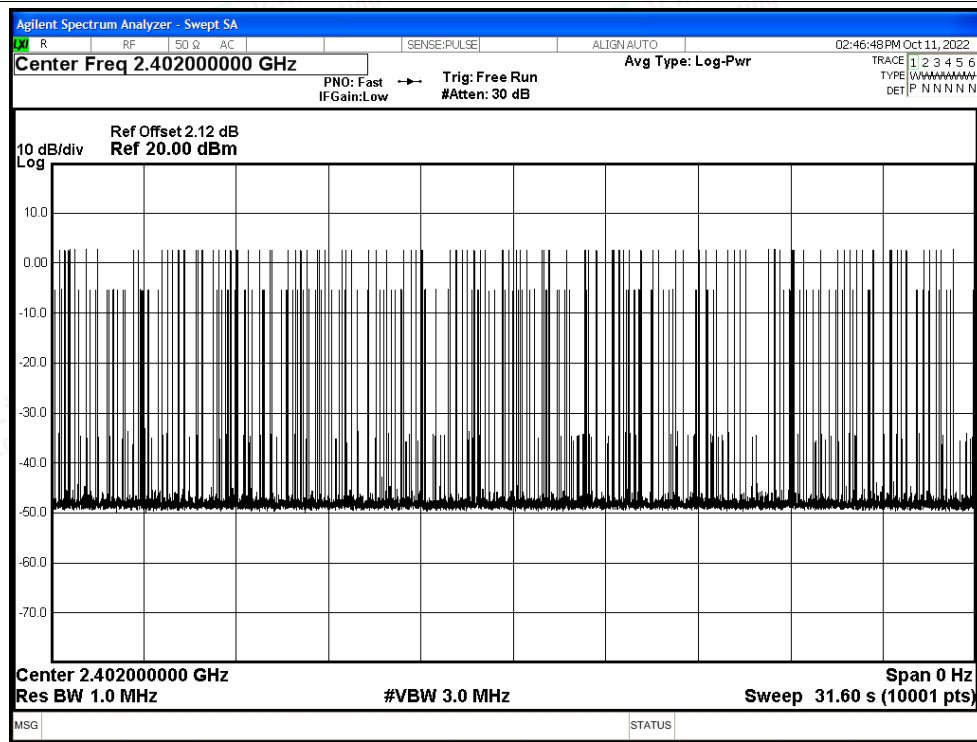


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

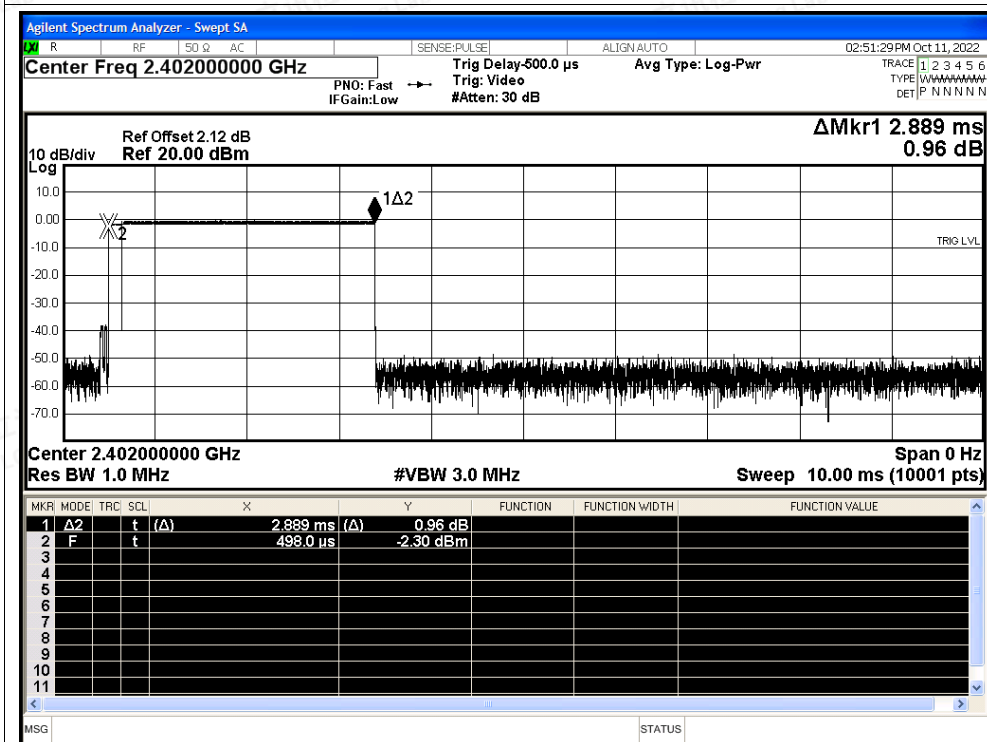


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

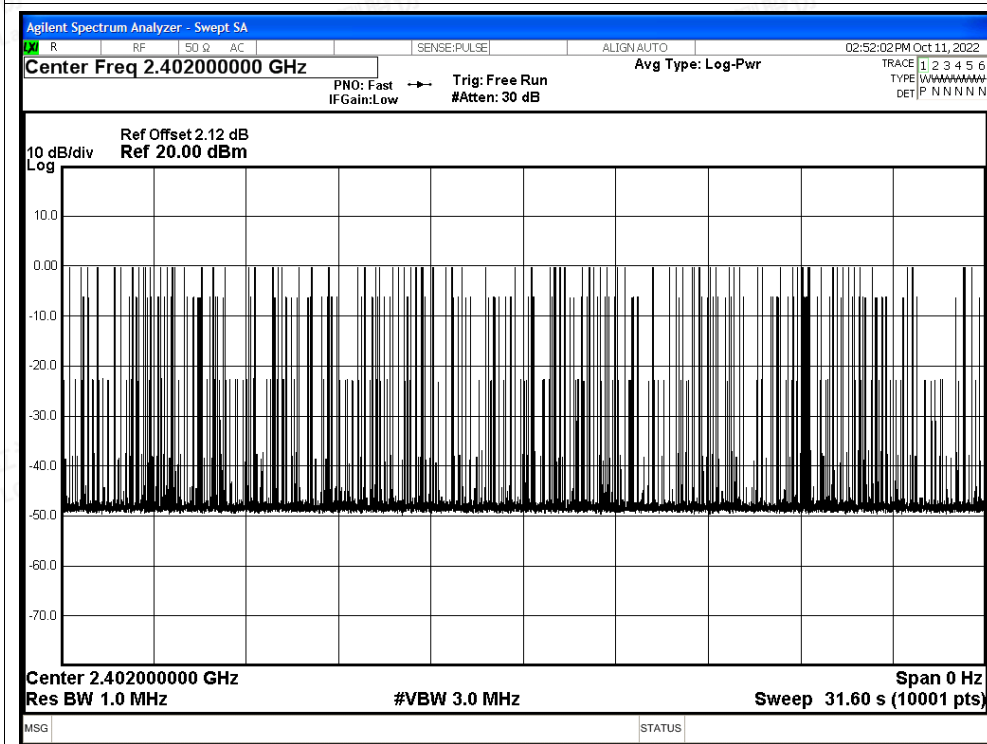




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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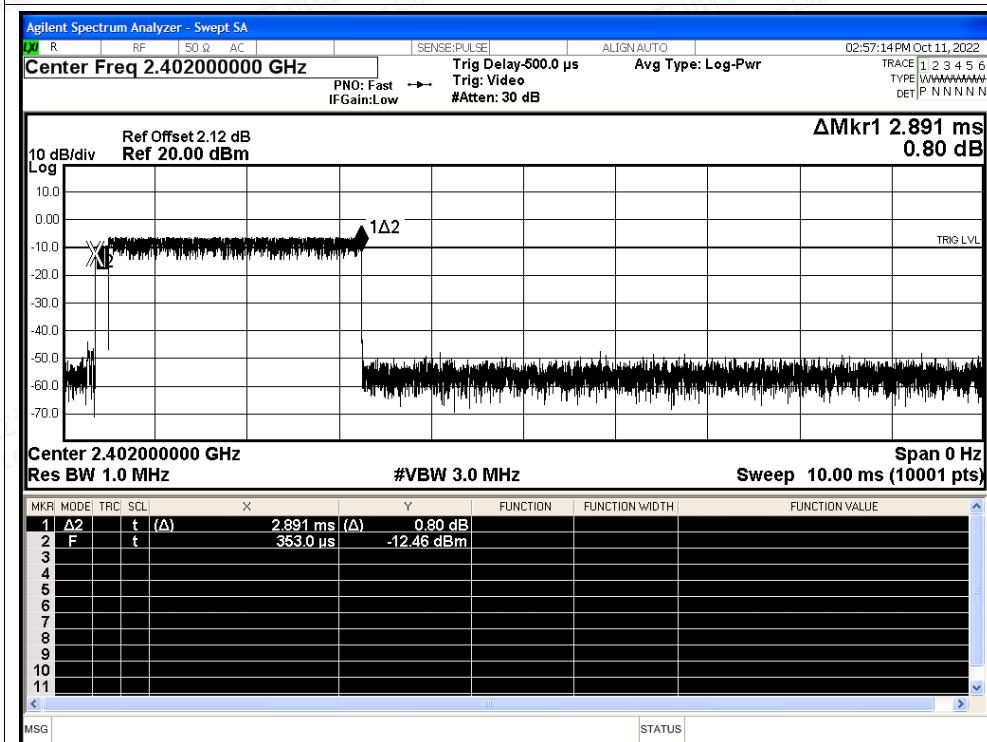
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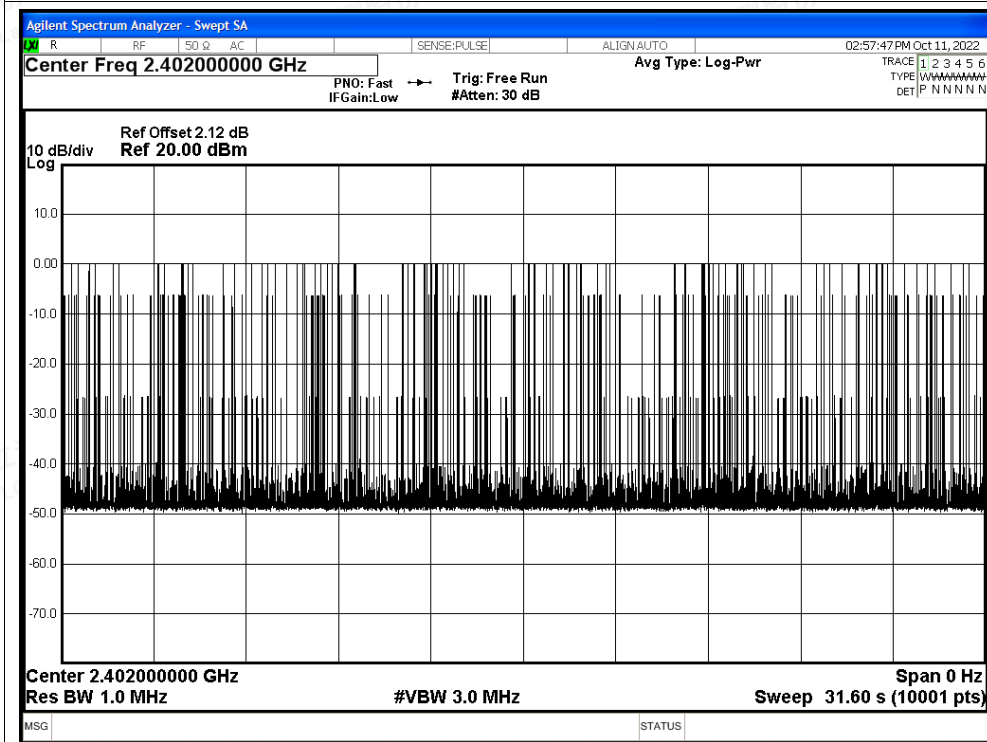
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

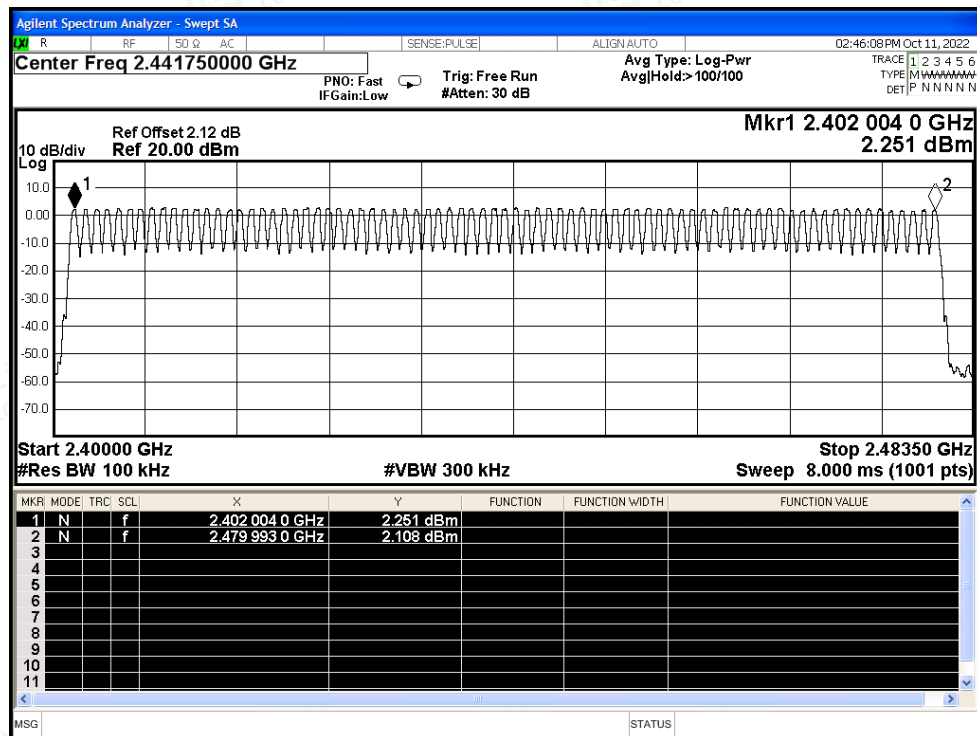
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



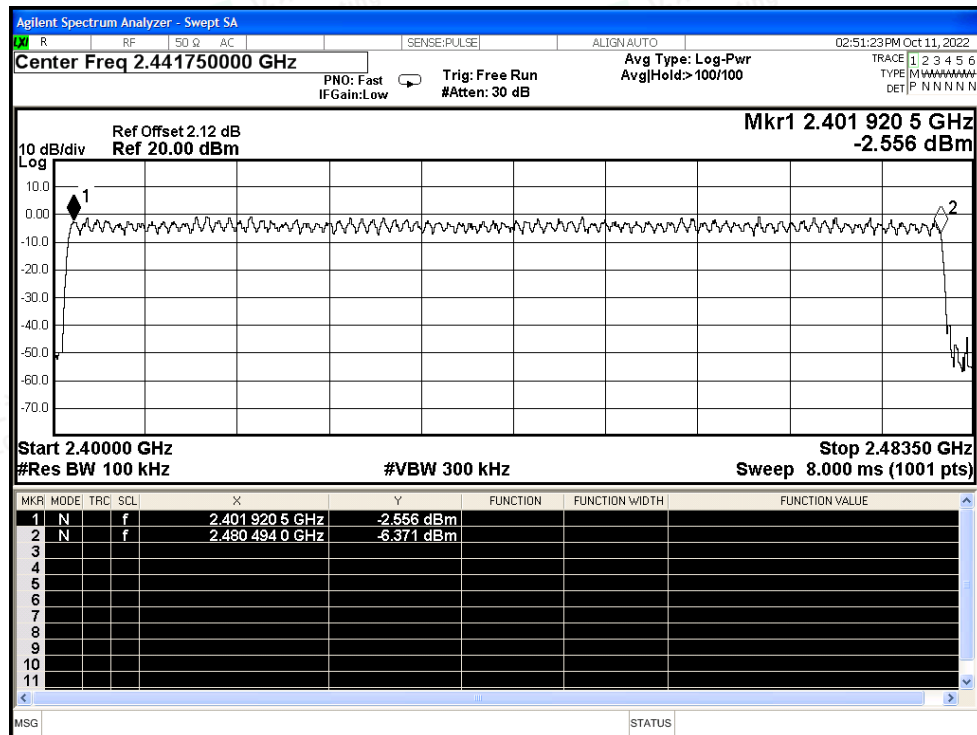


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1

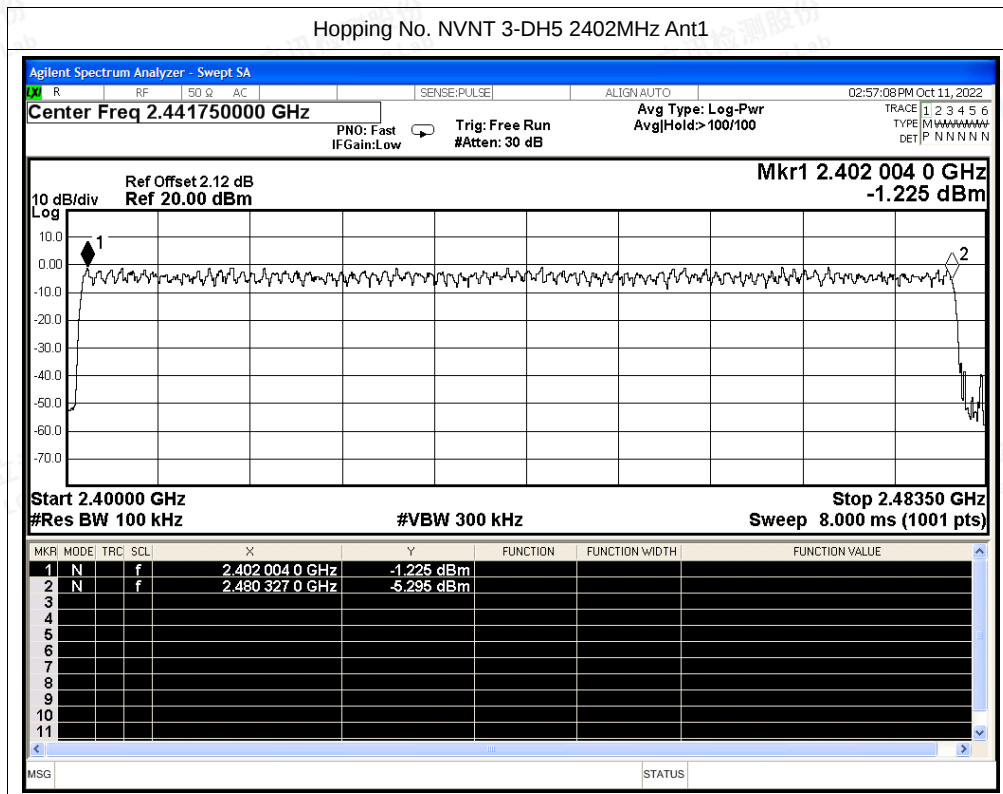


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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.93	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-43.02	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-46.99	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-35.33	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-45.91	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-35.62	-20	Pass

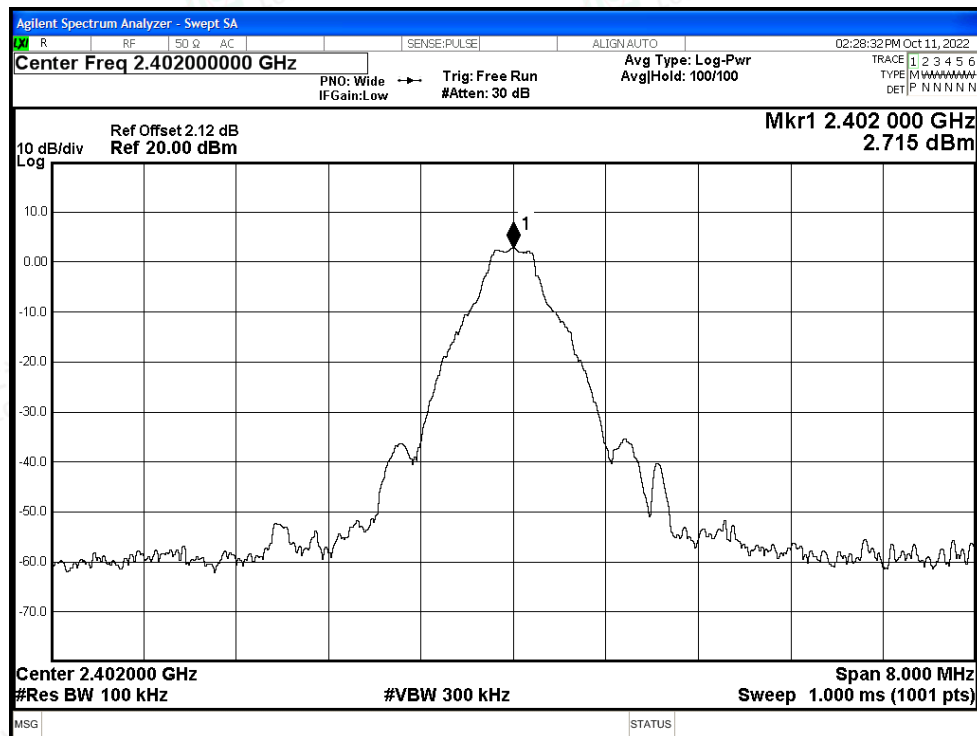


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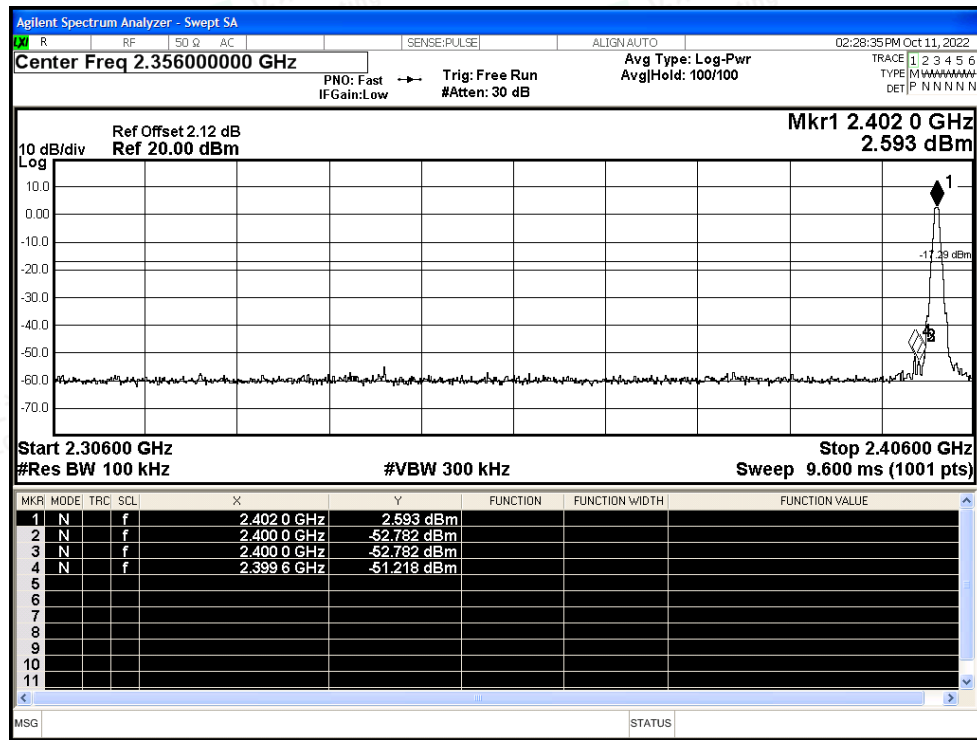


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

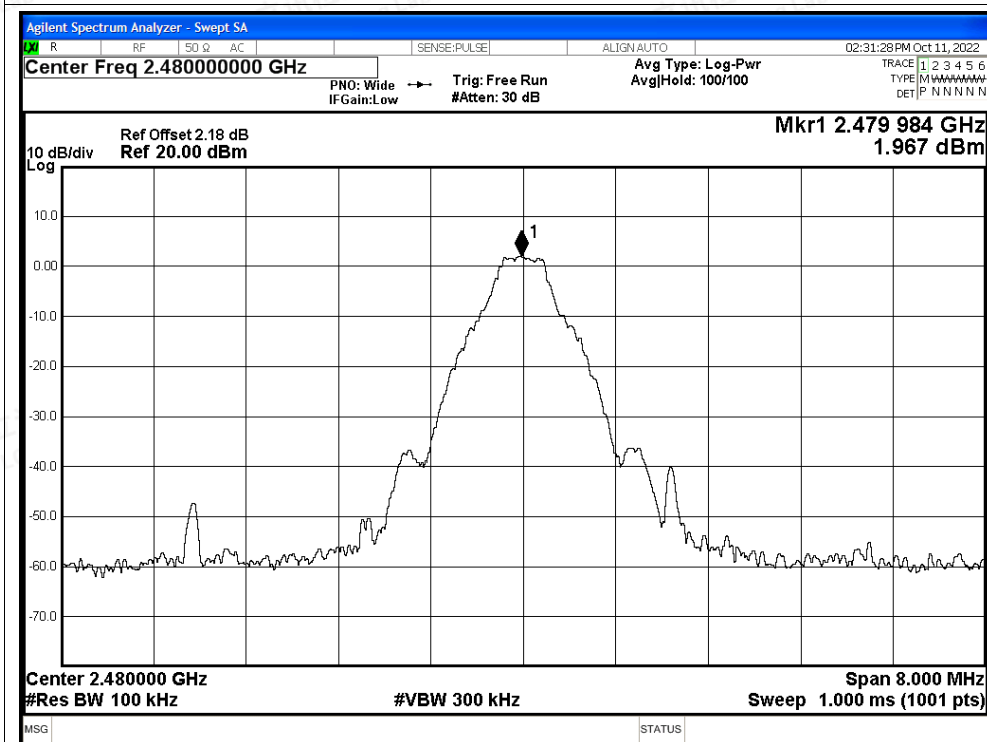


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

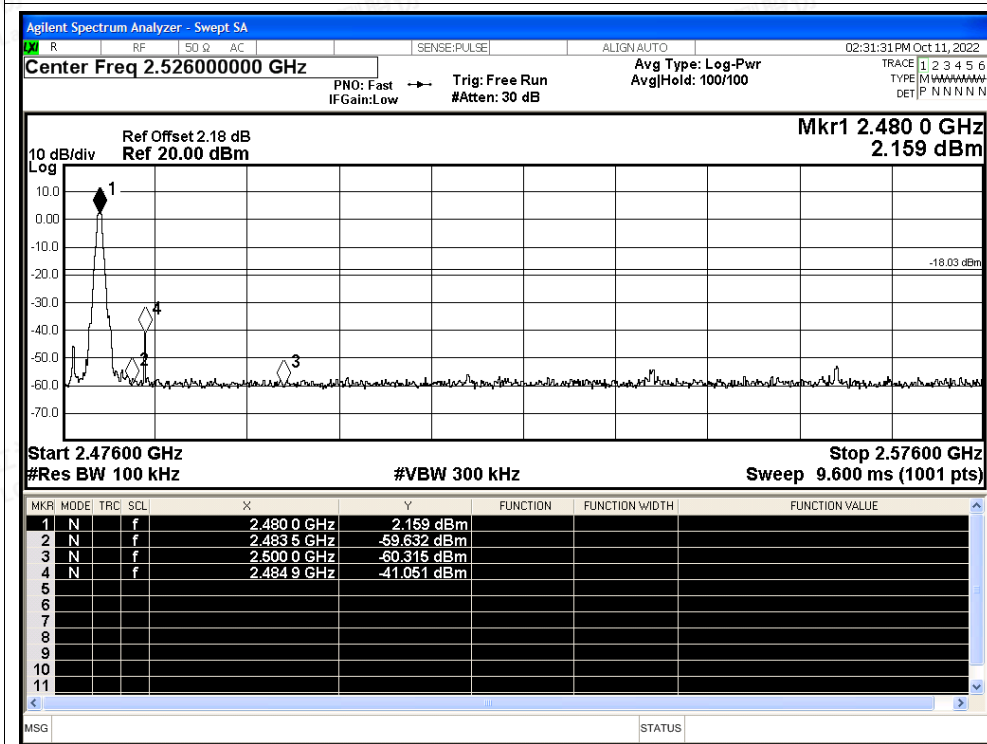


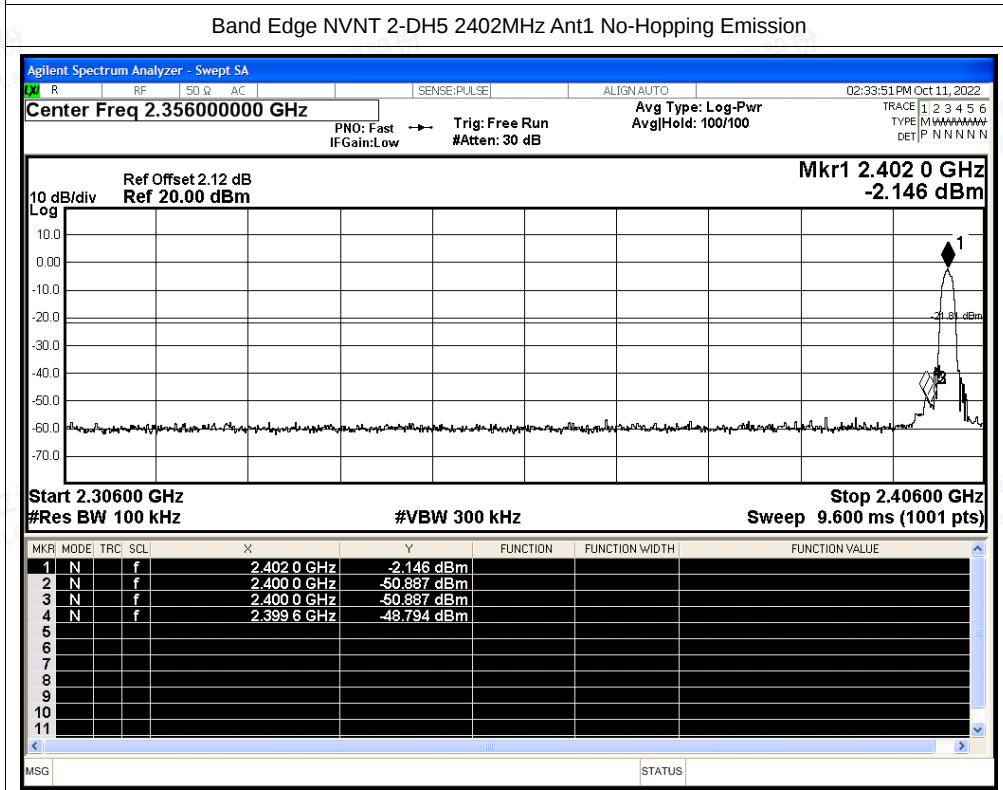
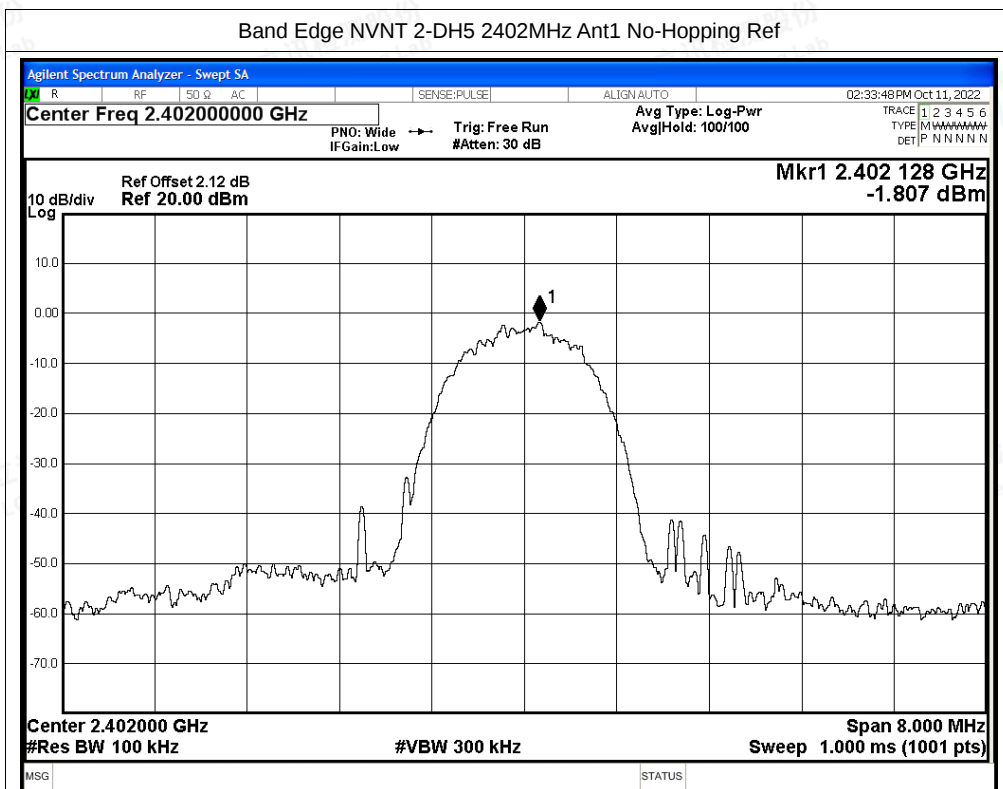


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



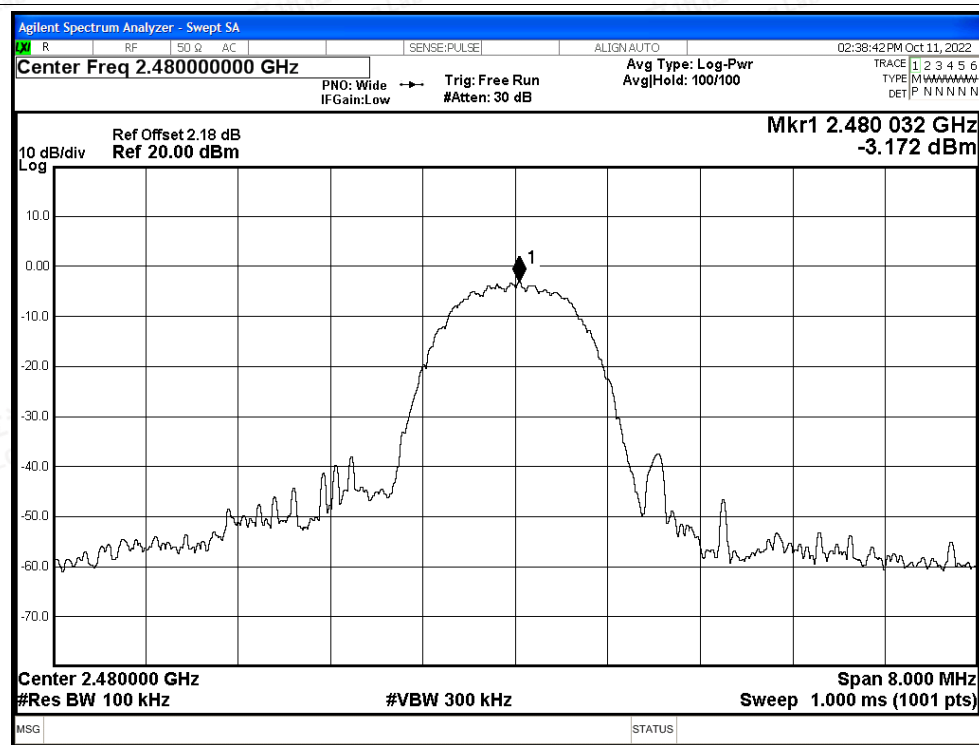
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



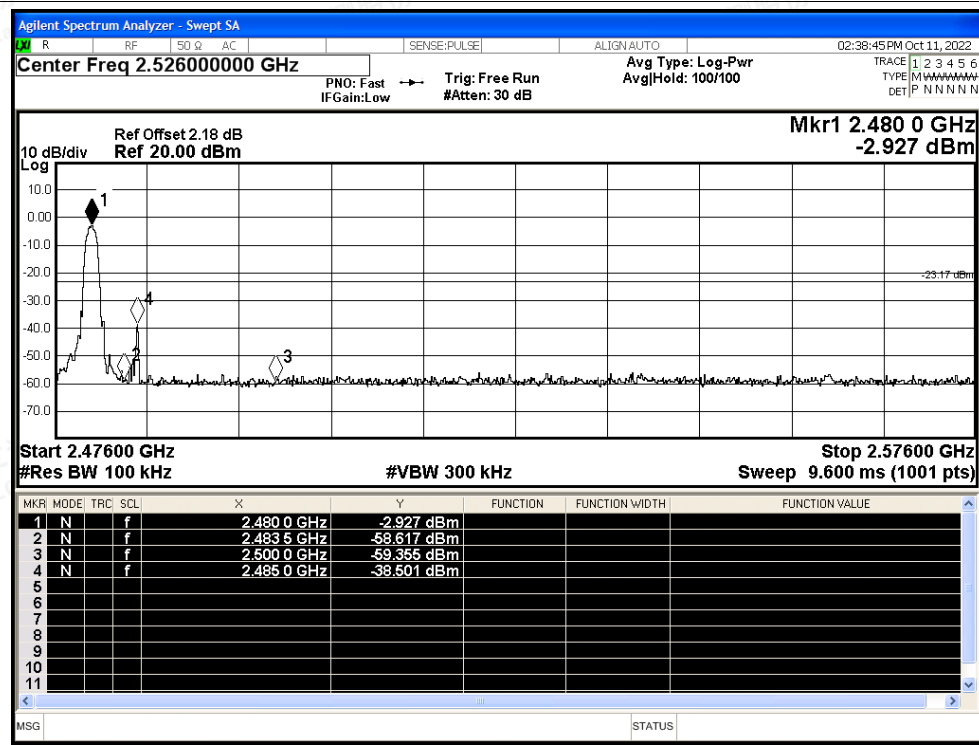


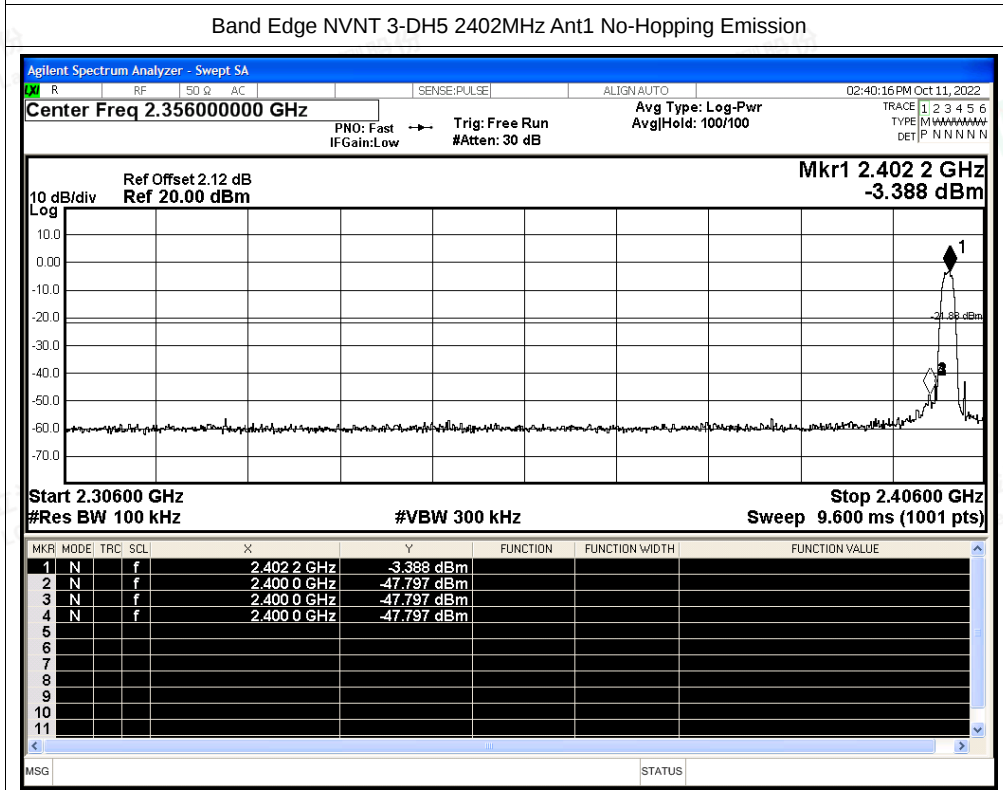
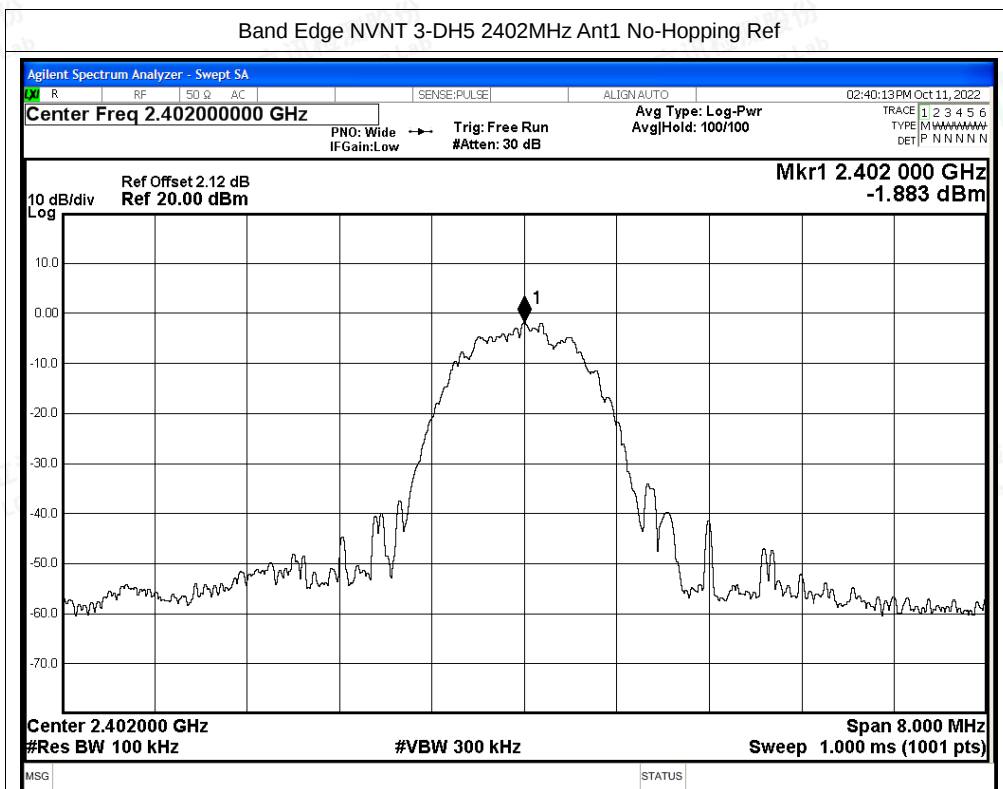


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



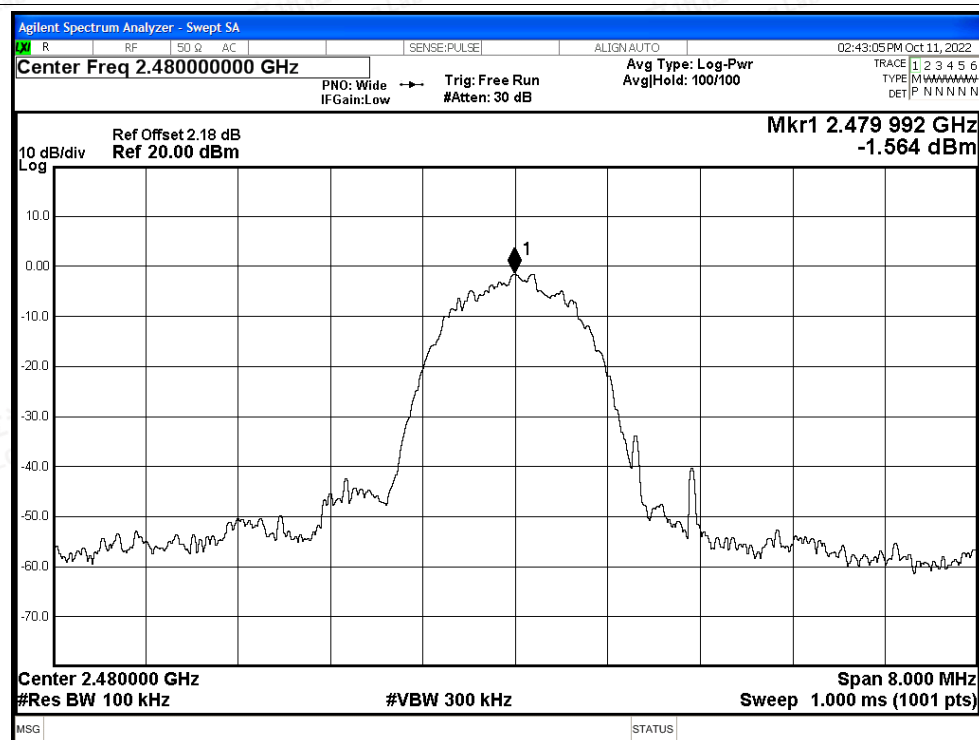
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



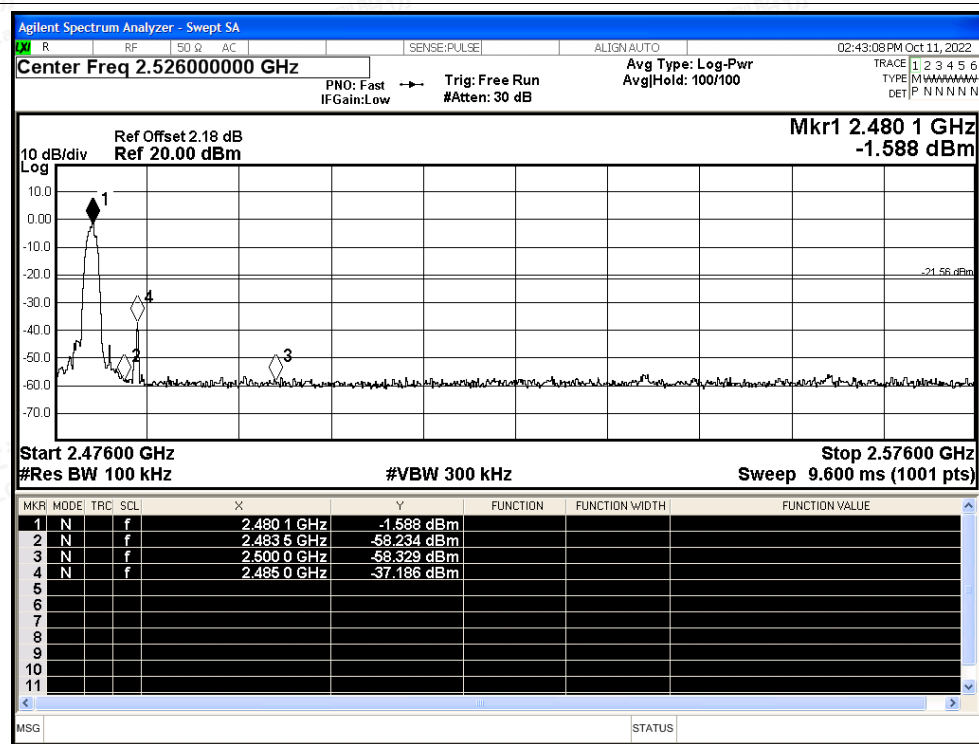




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.23	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.13	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.09	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.06	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.5	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.69	-20	Pass

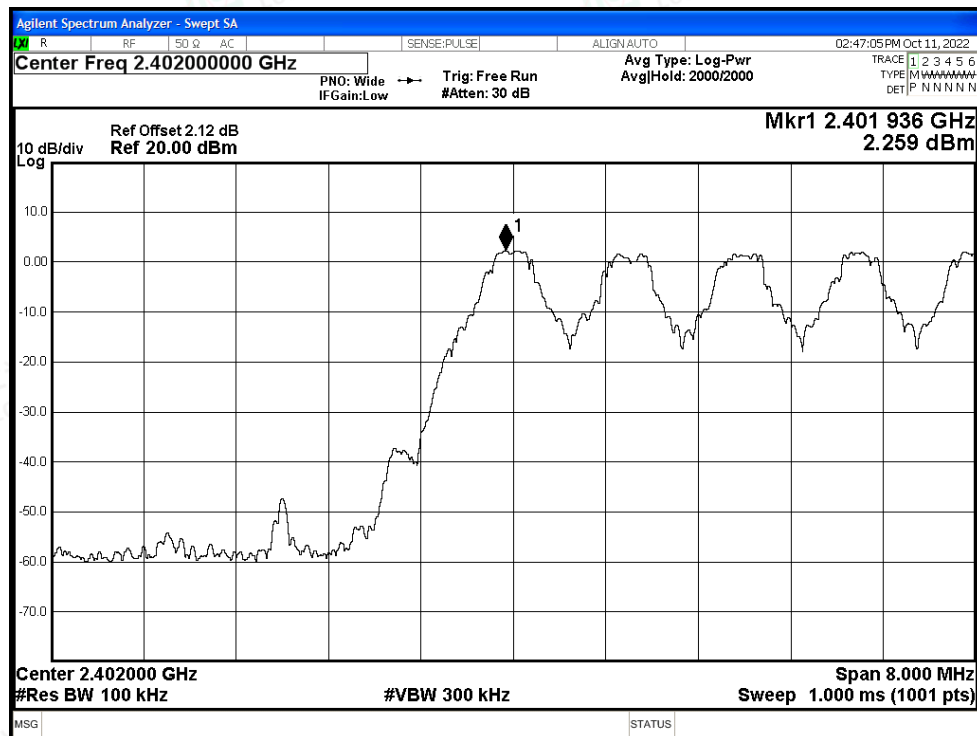


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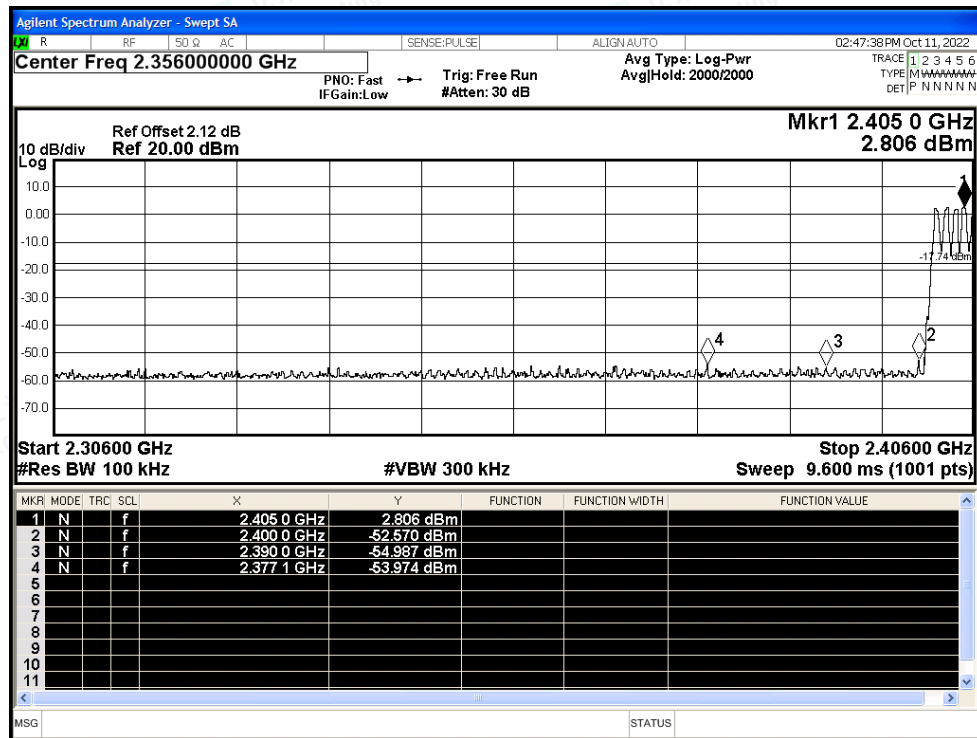


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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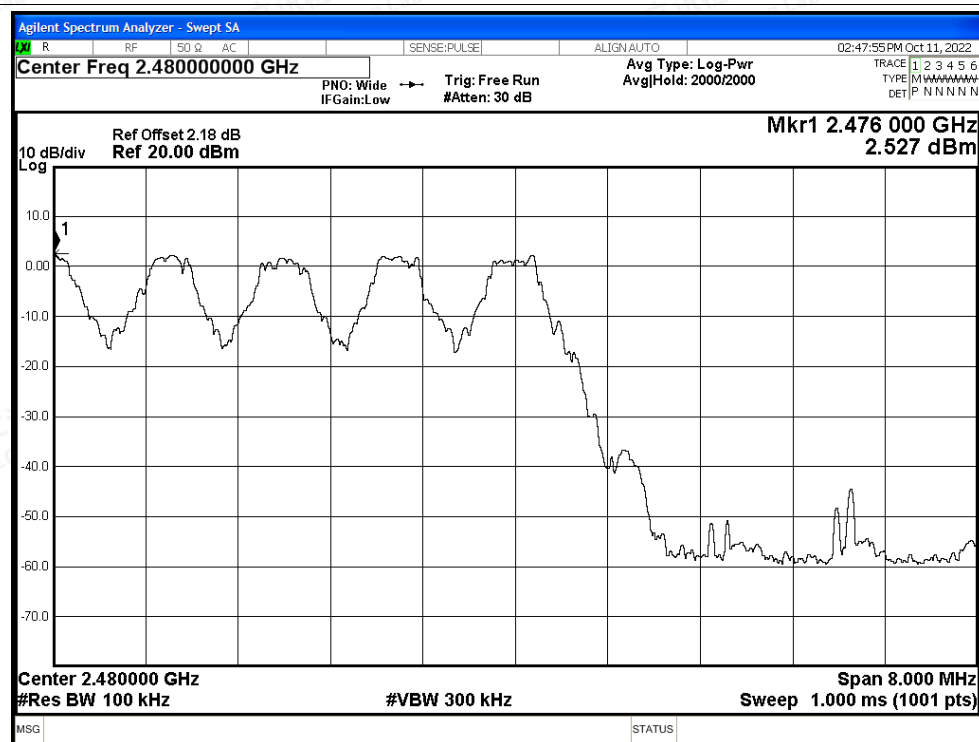
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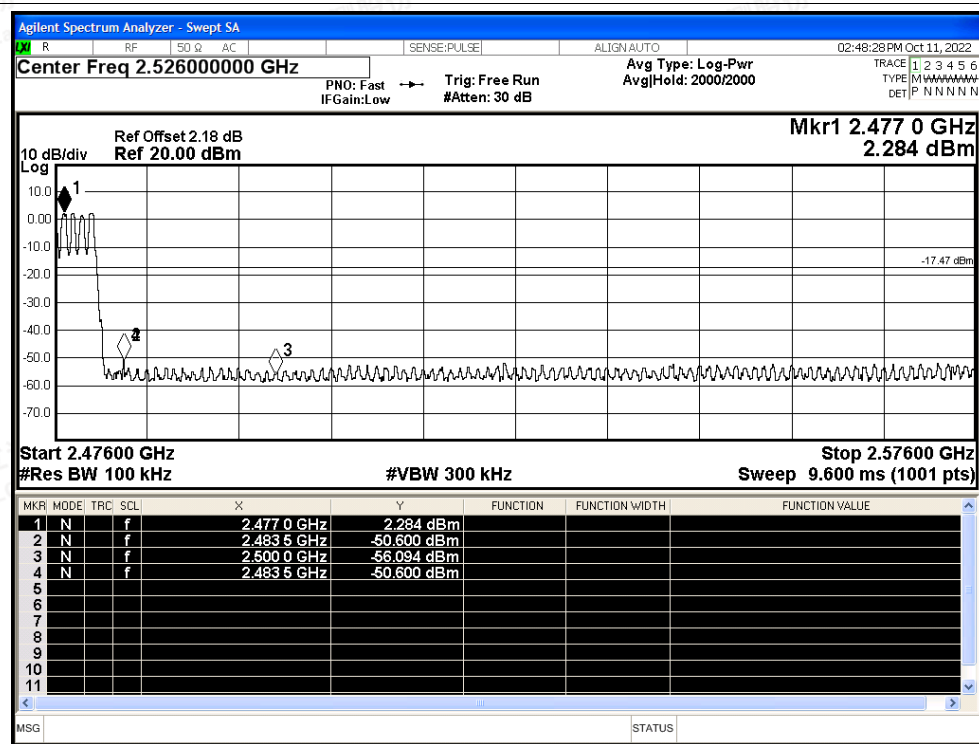
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

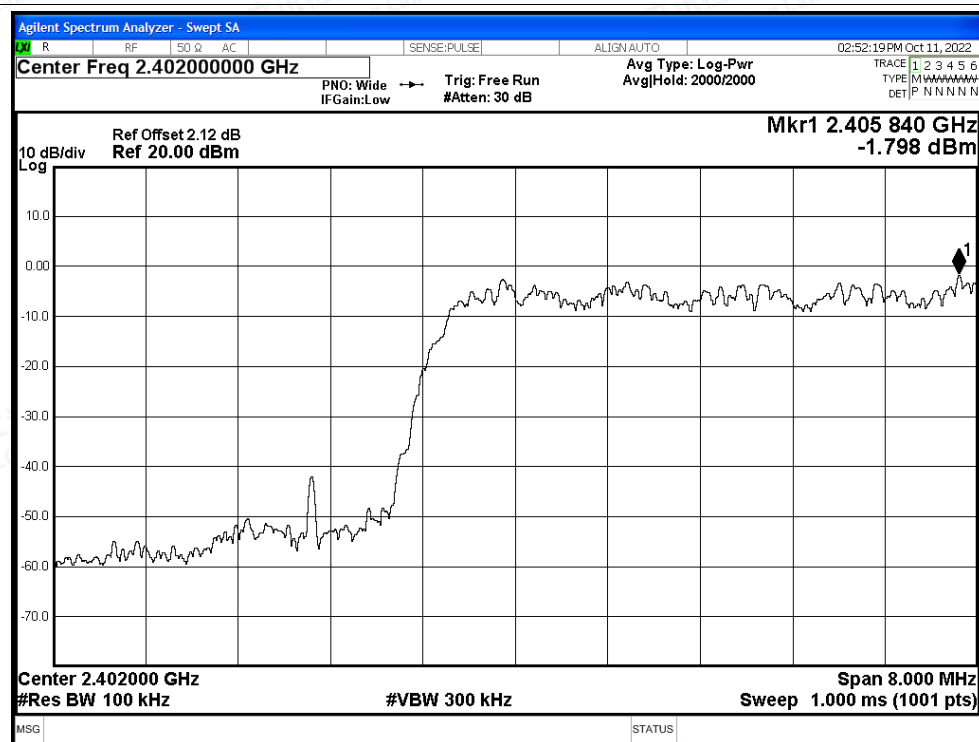


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

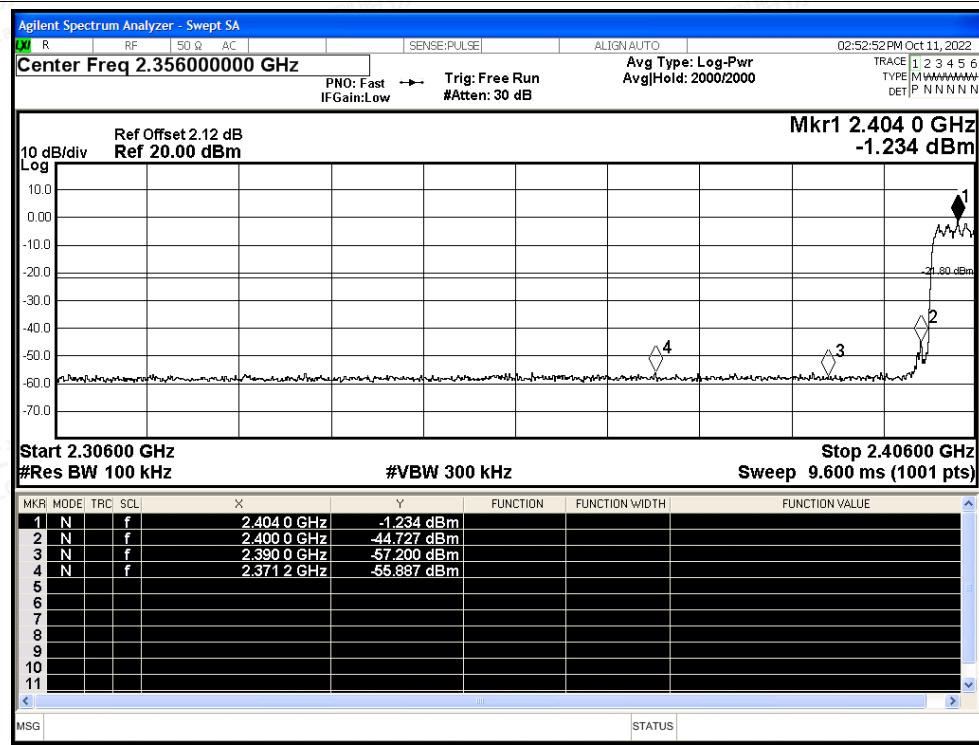


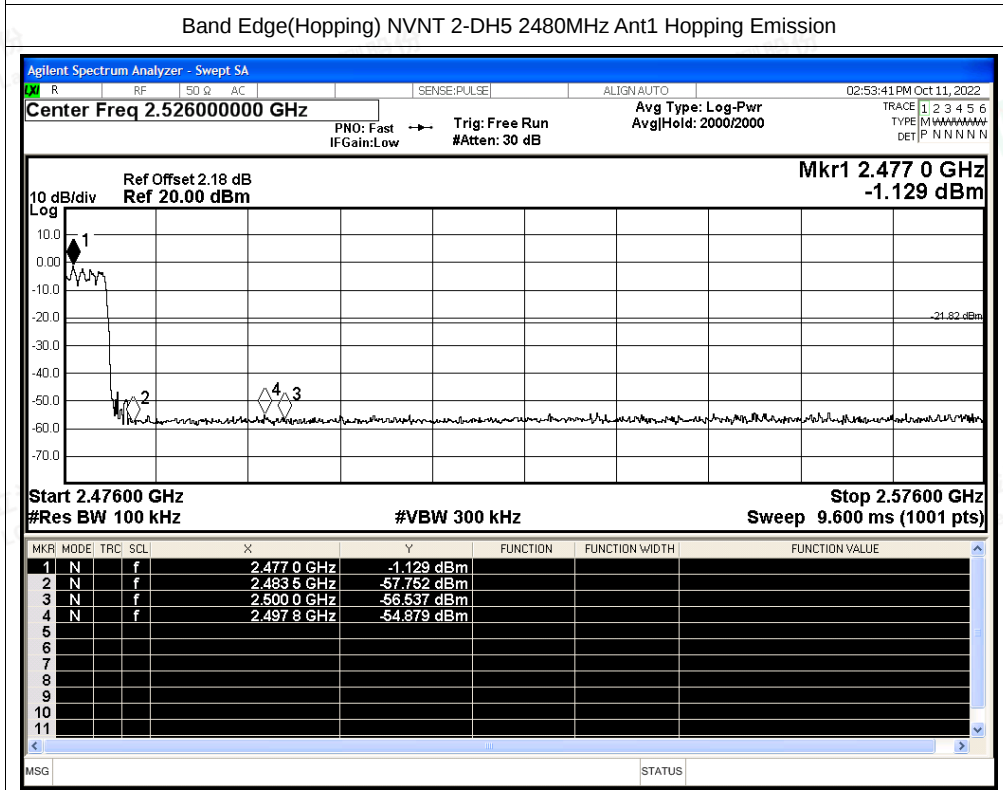
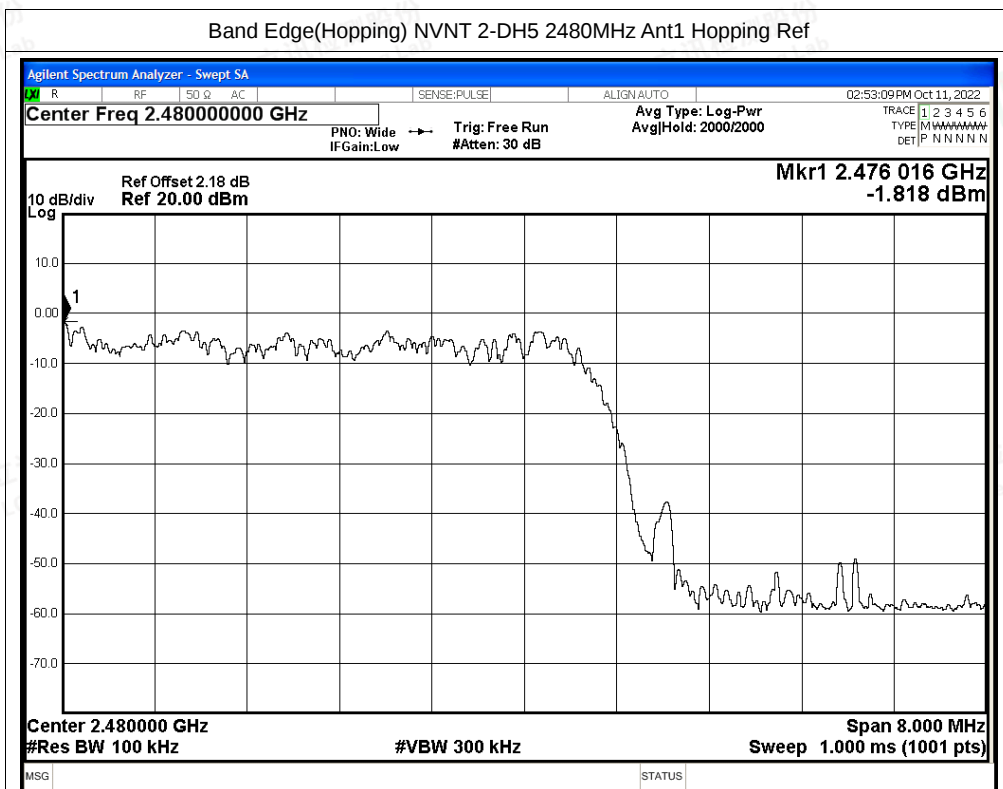


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



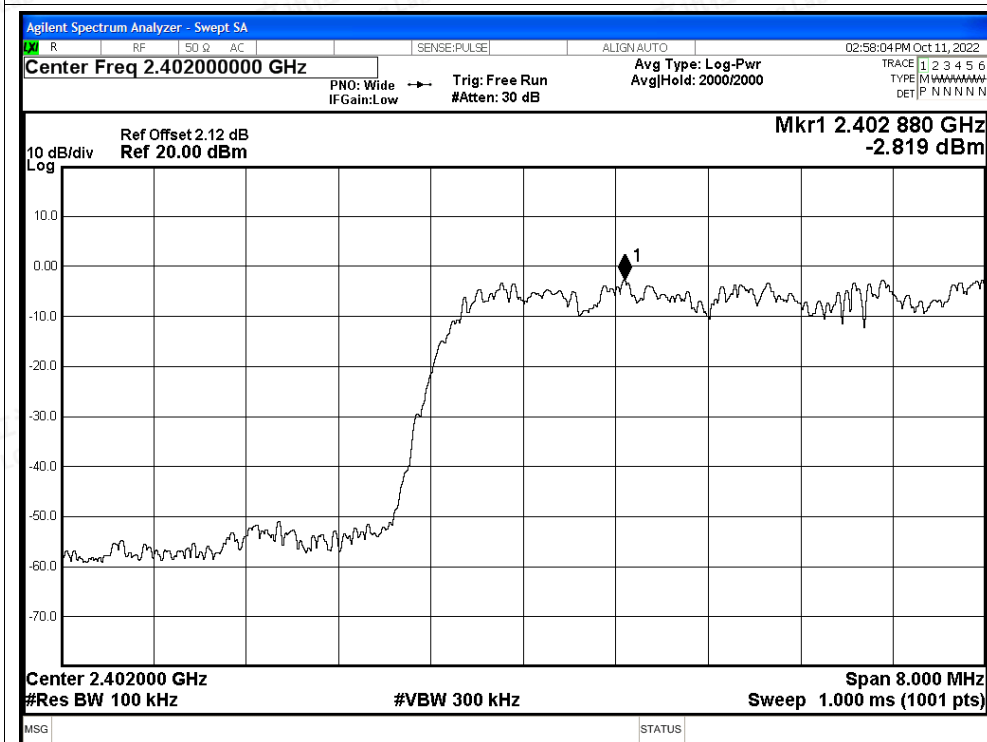
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



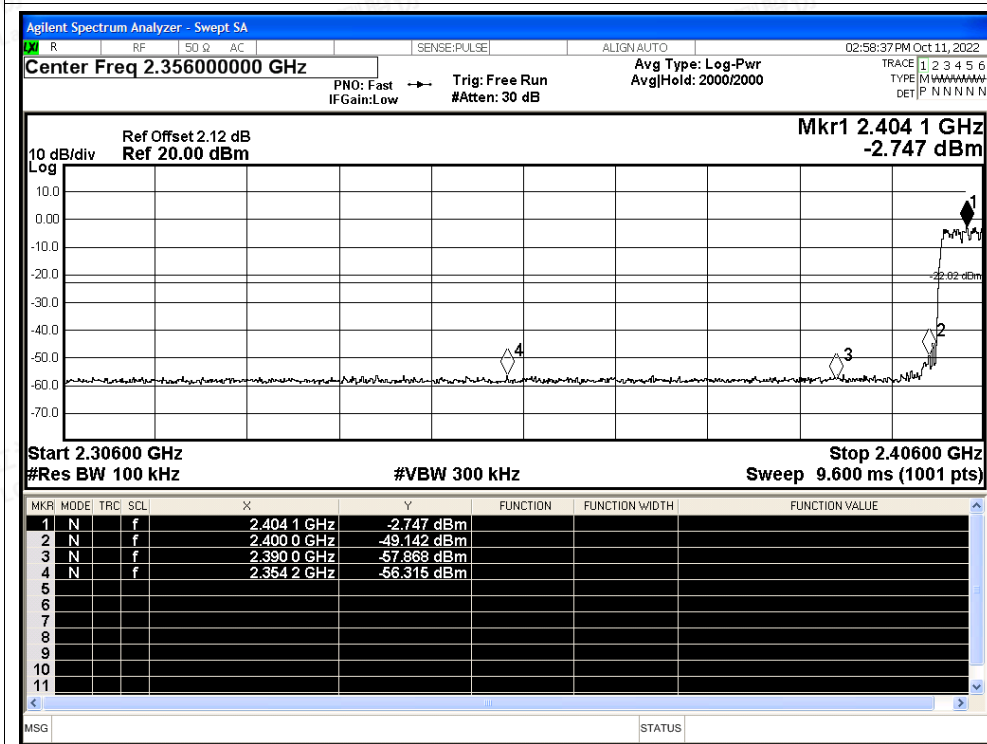




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

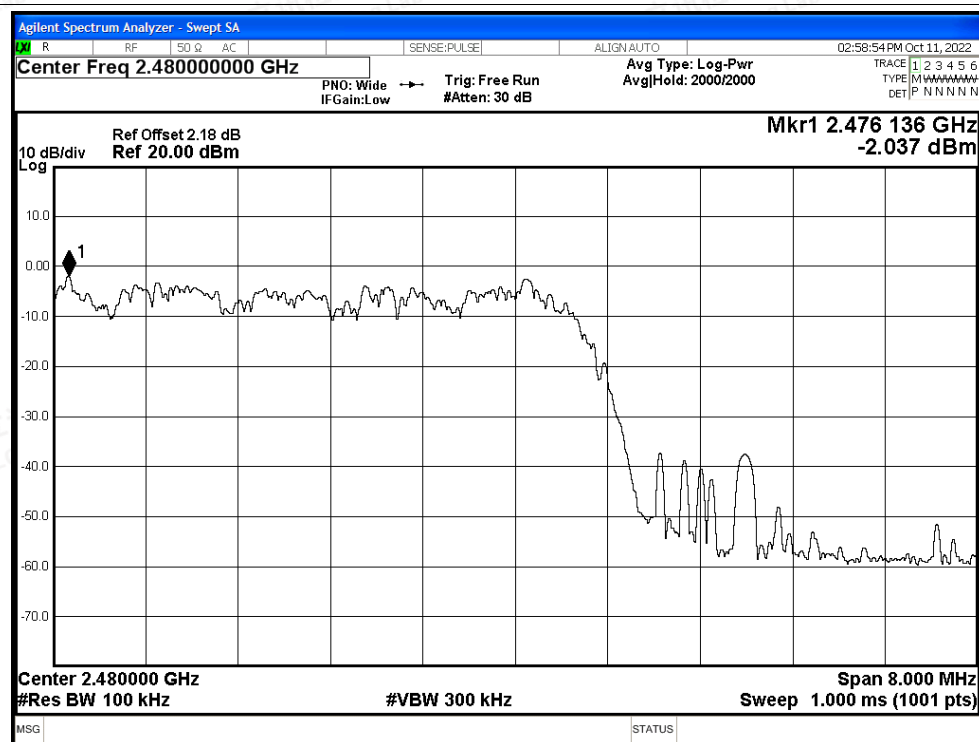


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

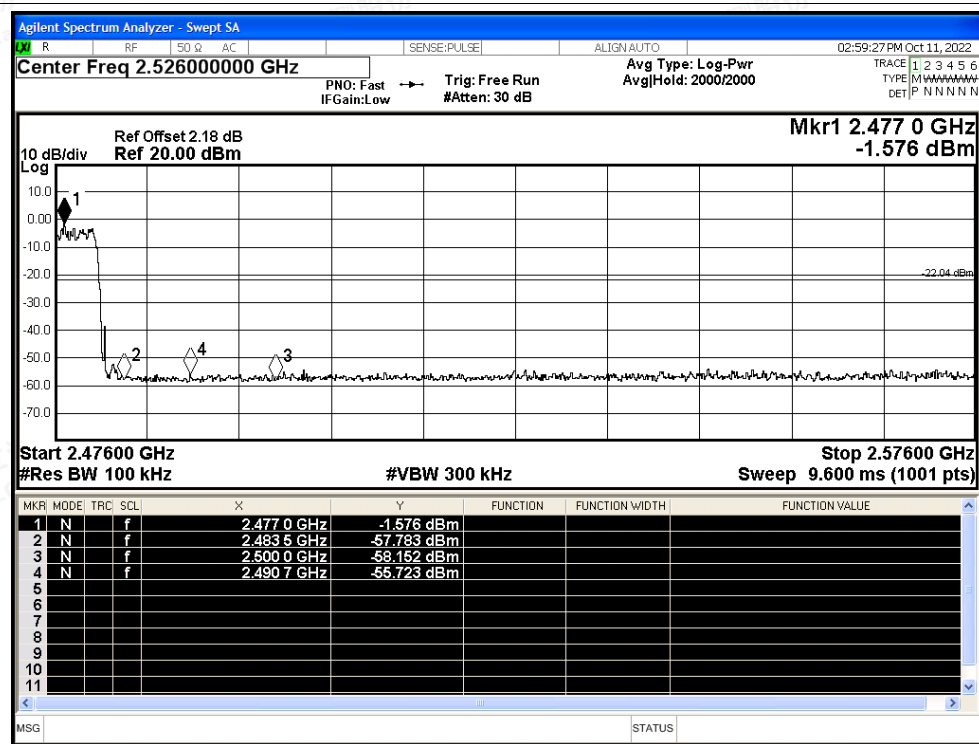




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-57.47	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.83	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.85	-20	Pass
NVNT	2-DH5	2402	Ant1	-53.06	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.52	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.76	-20	Pass
NVNT	3-DH5	2402	Ant1	-54.12	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.06	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.76	-20	Pass

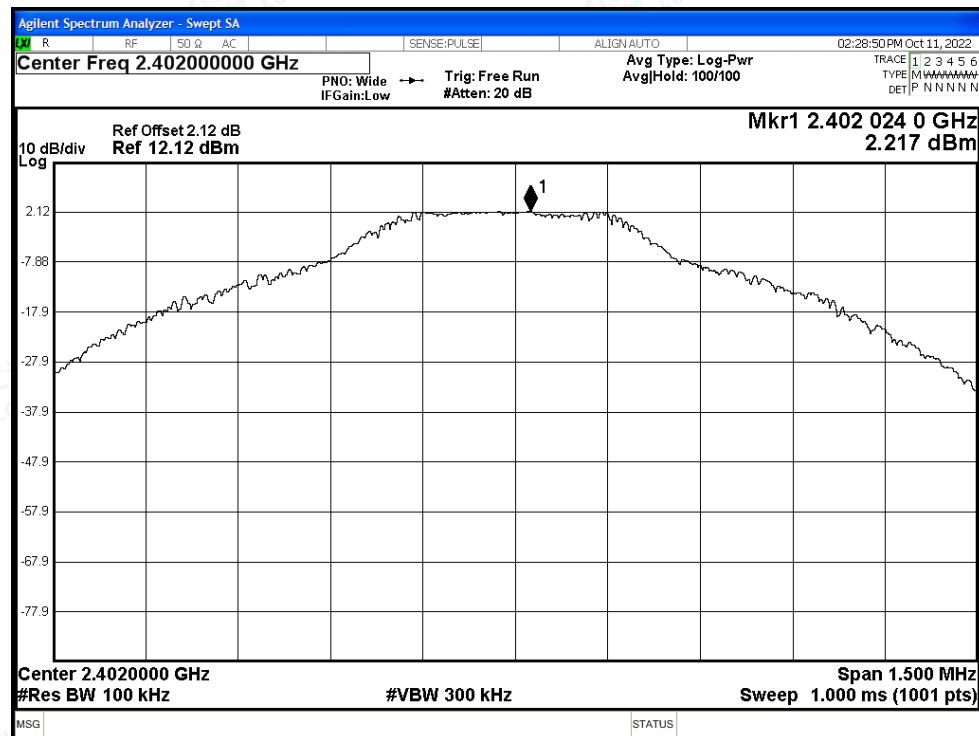


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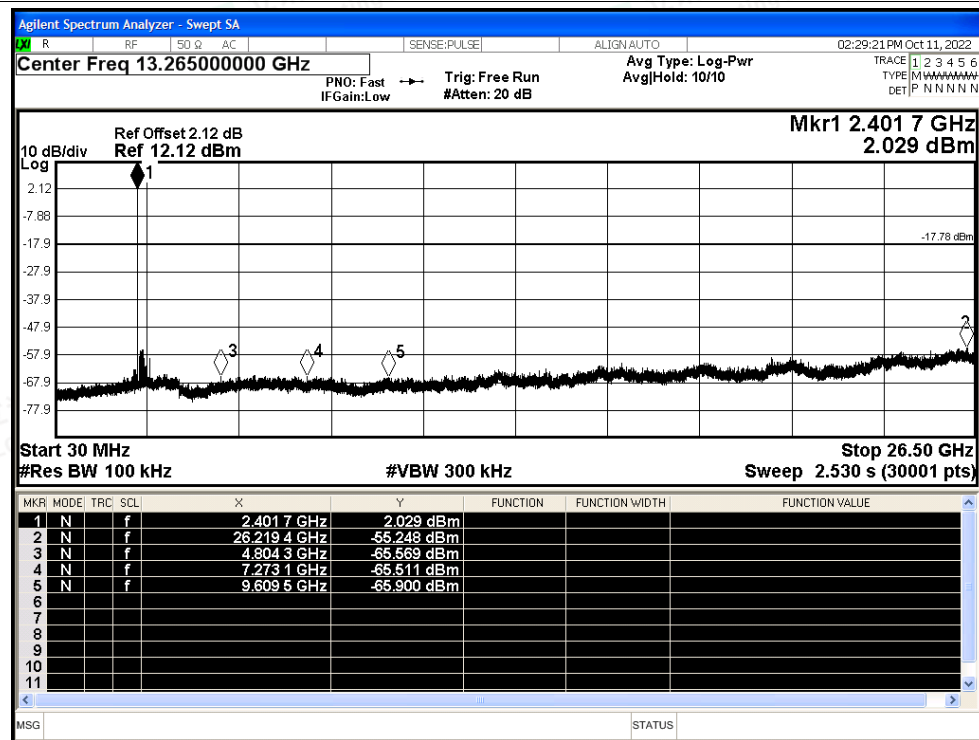


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

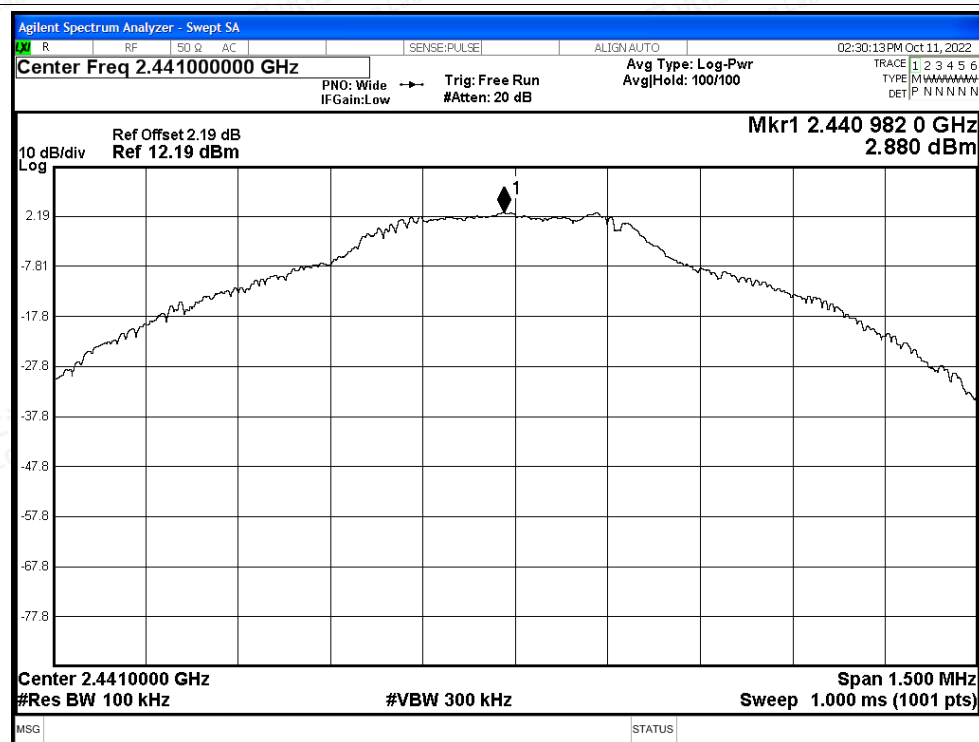


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

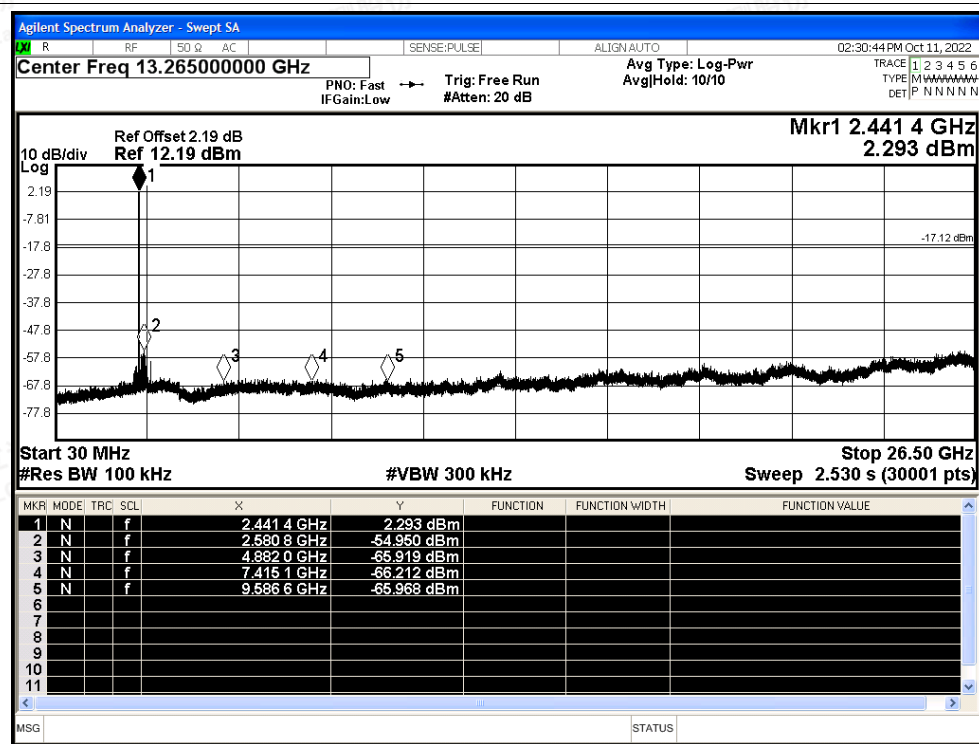




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

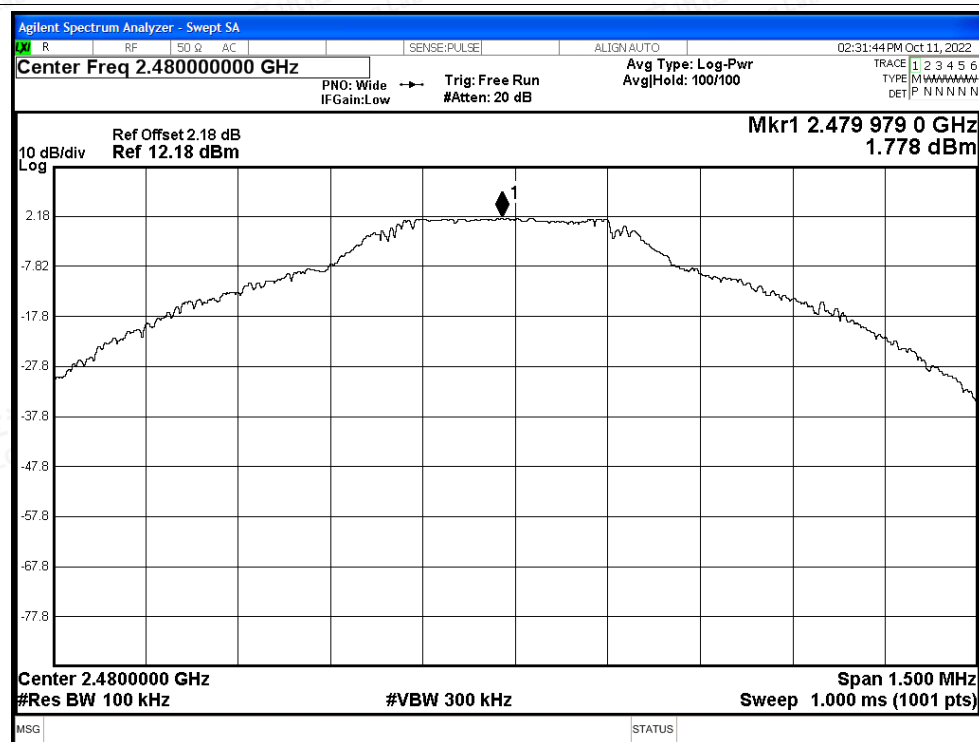


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

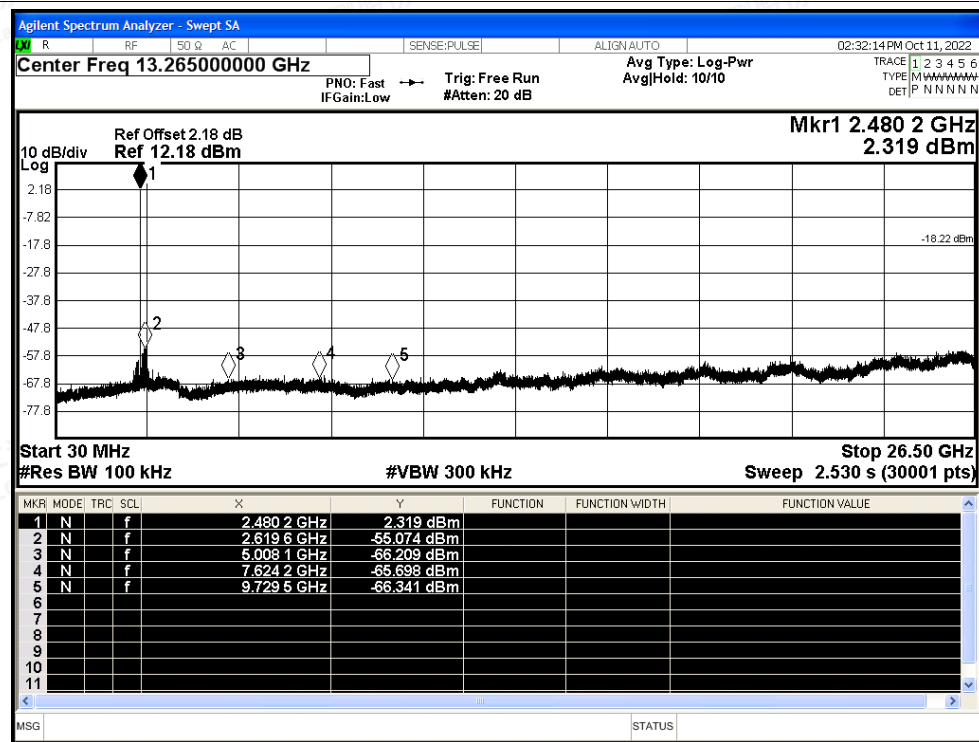




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

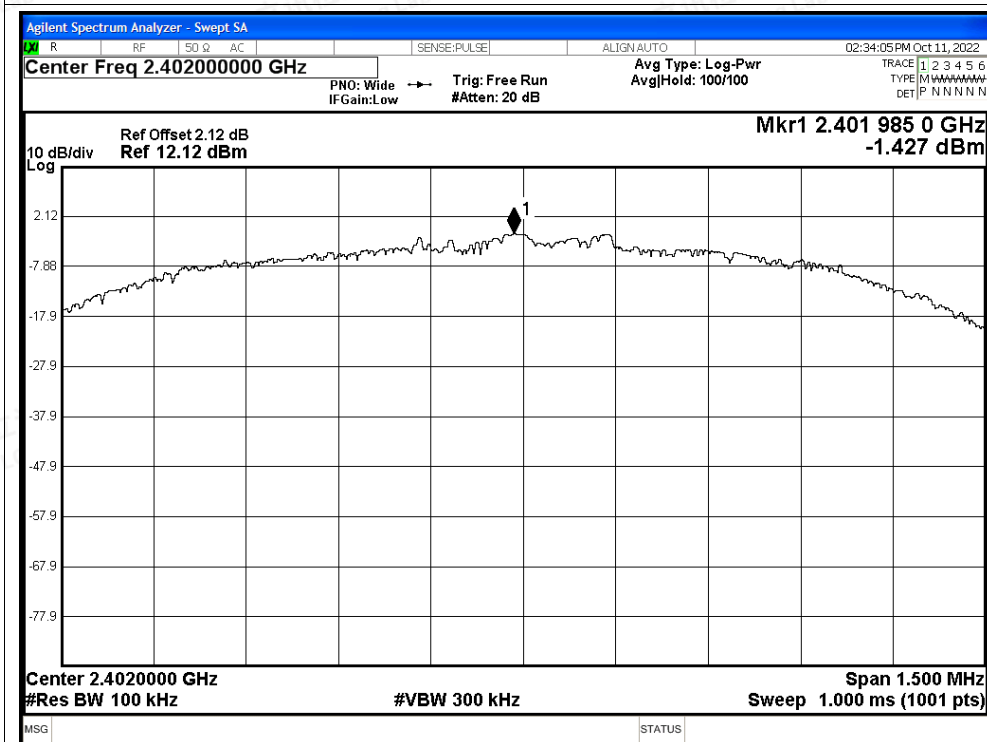


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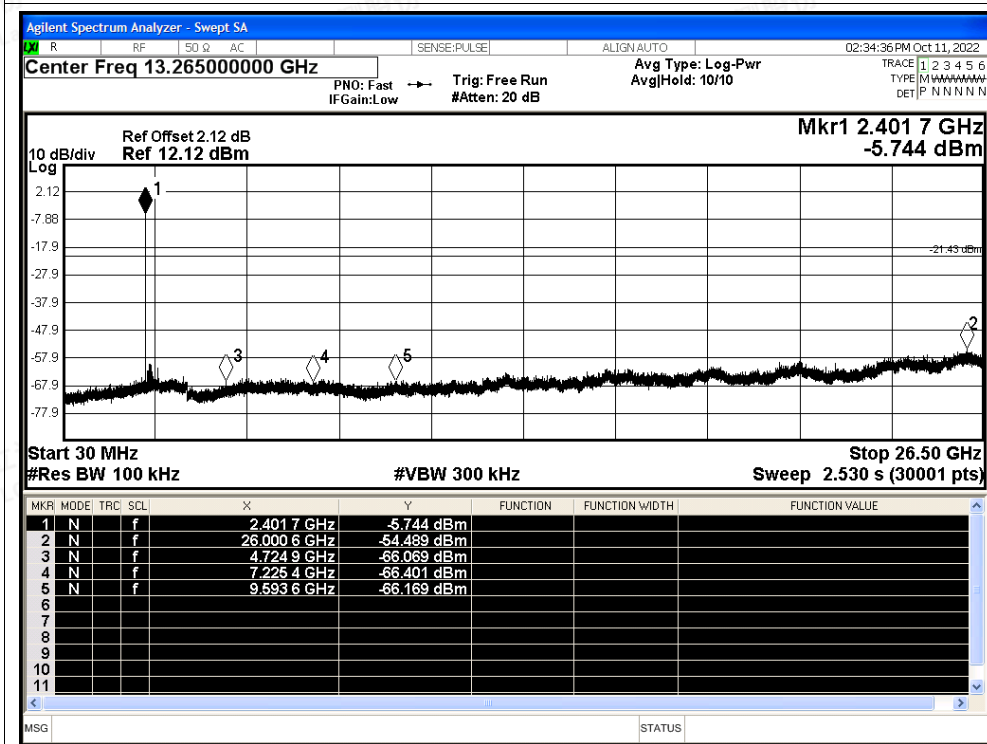




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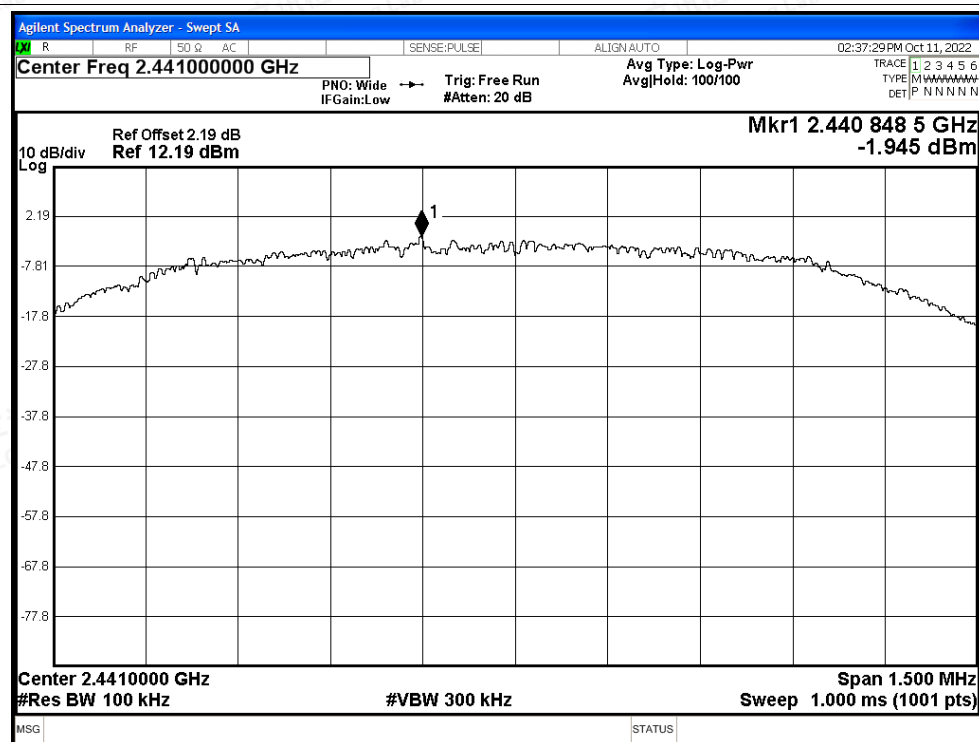


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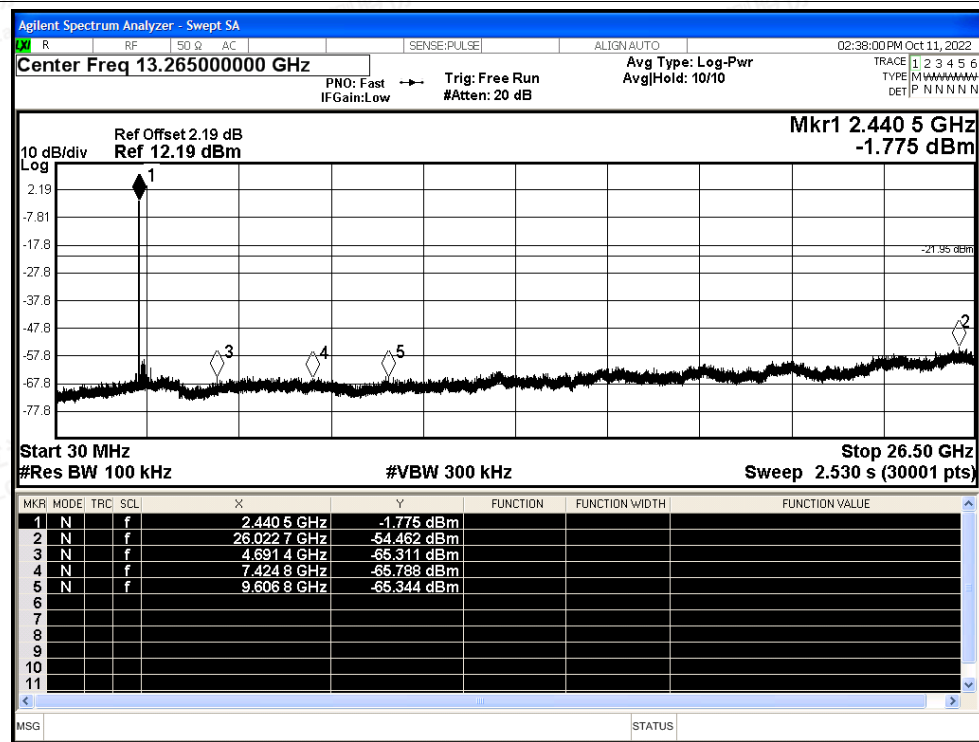




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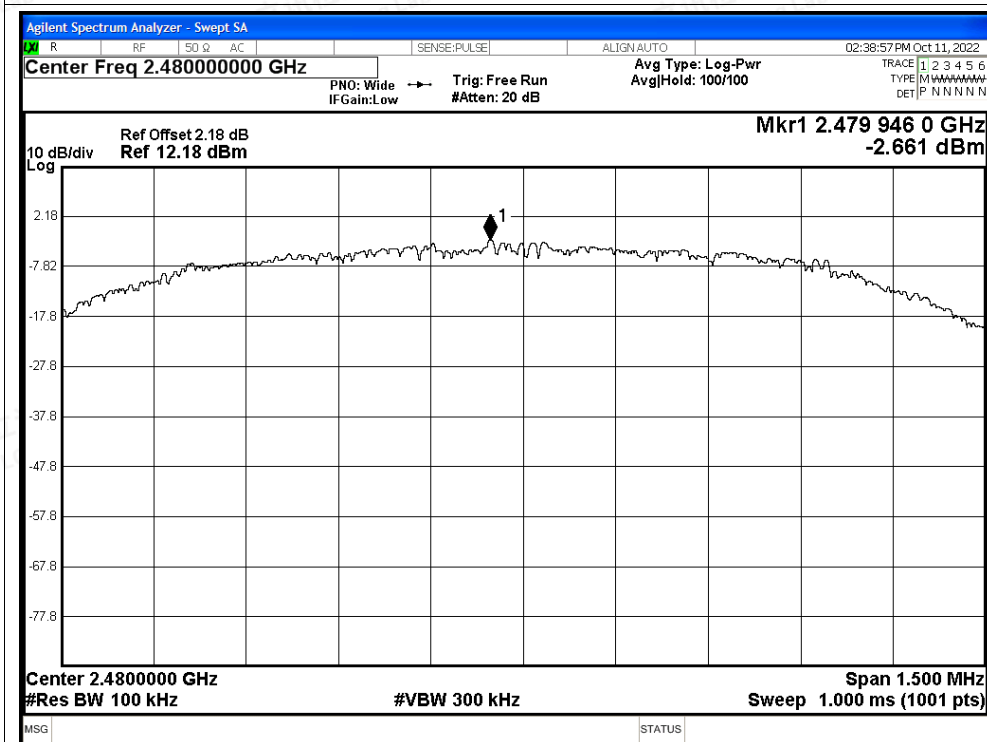


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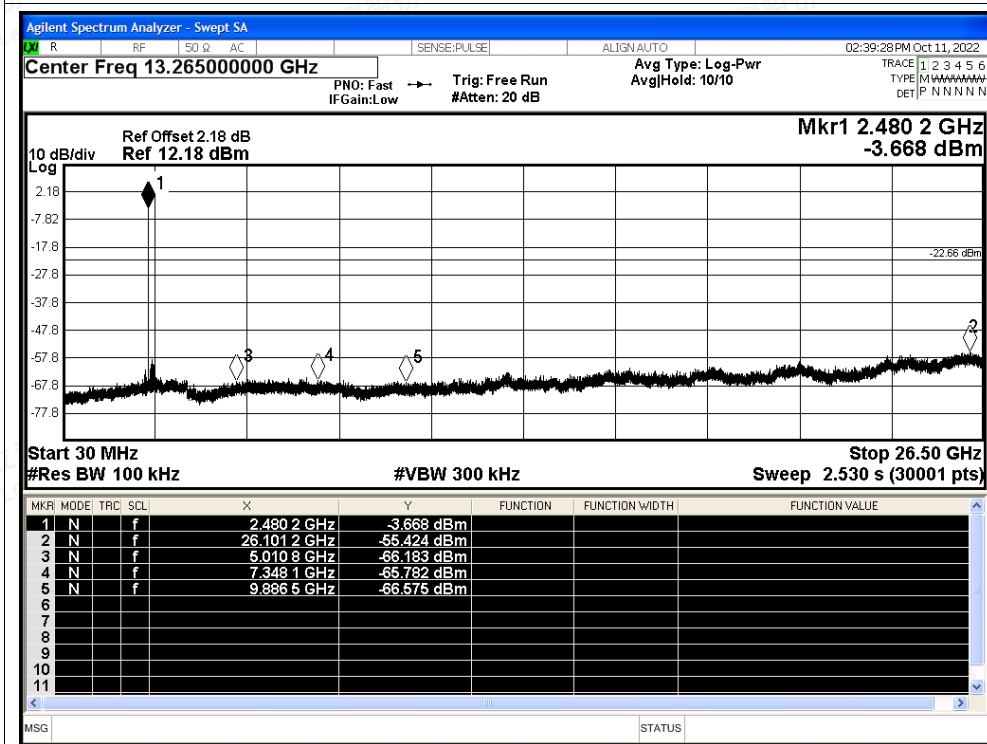




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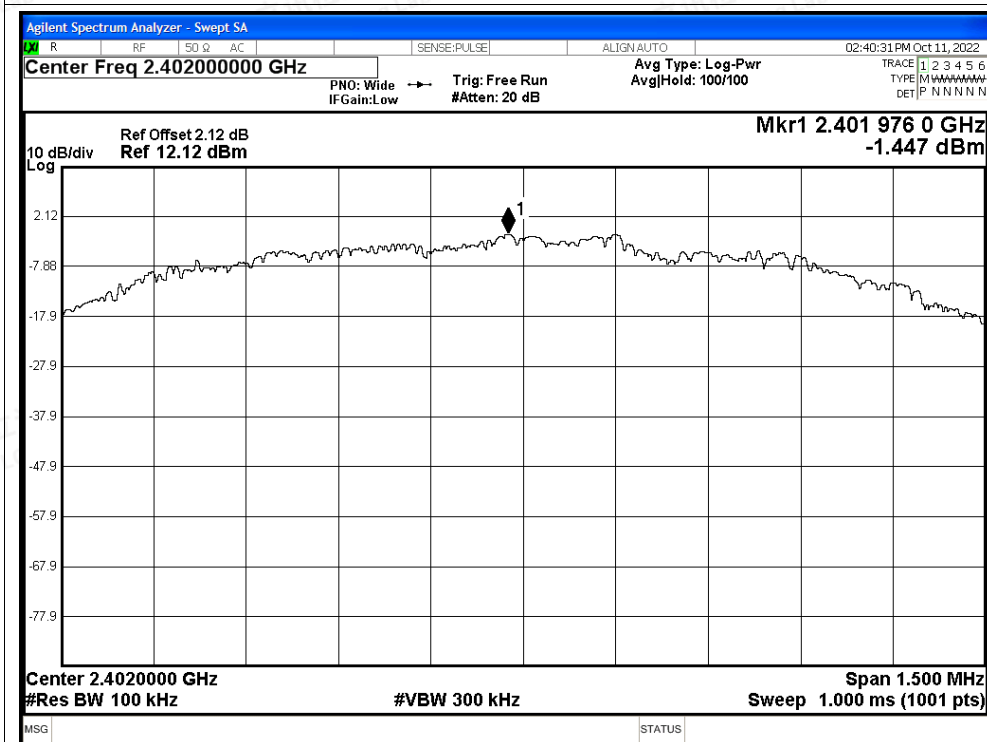


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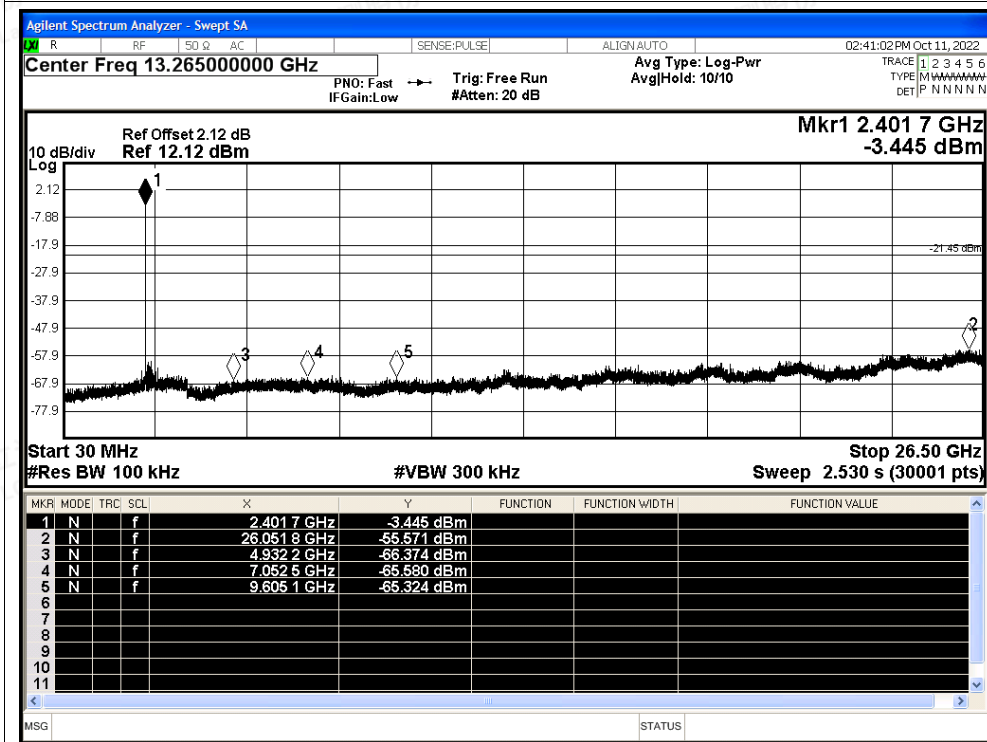




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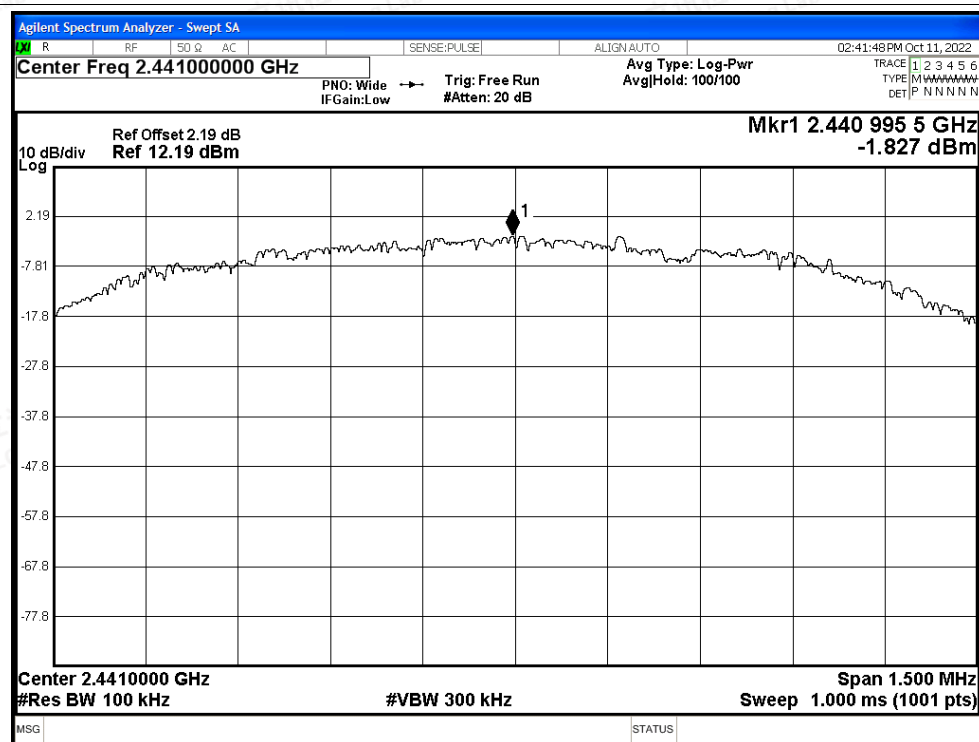


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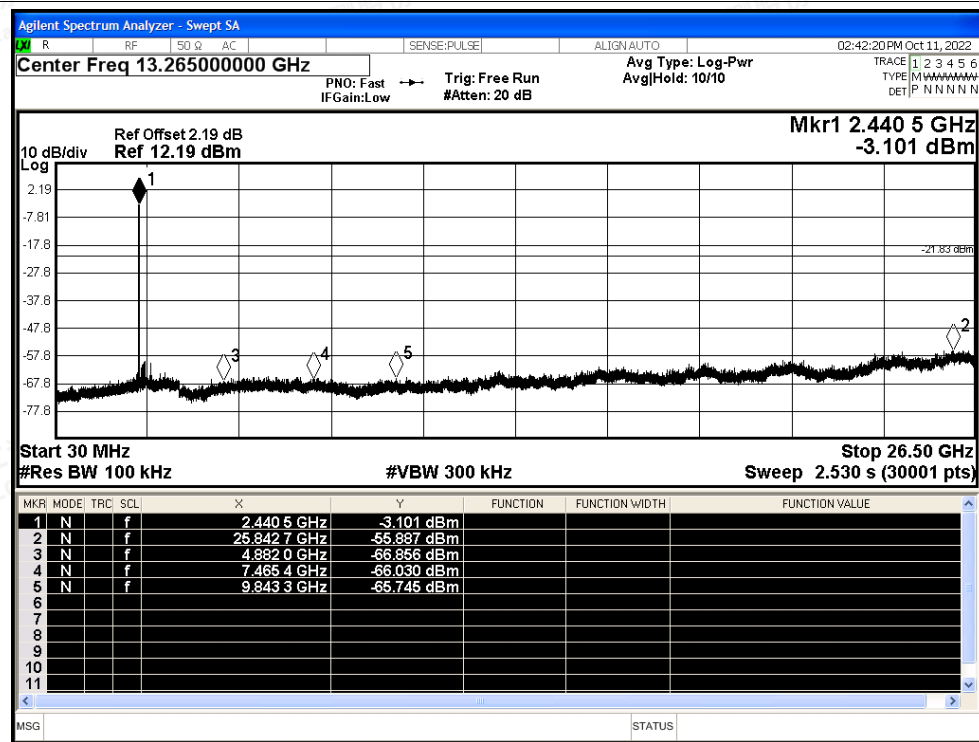




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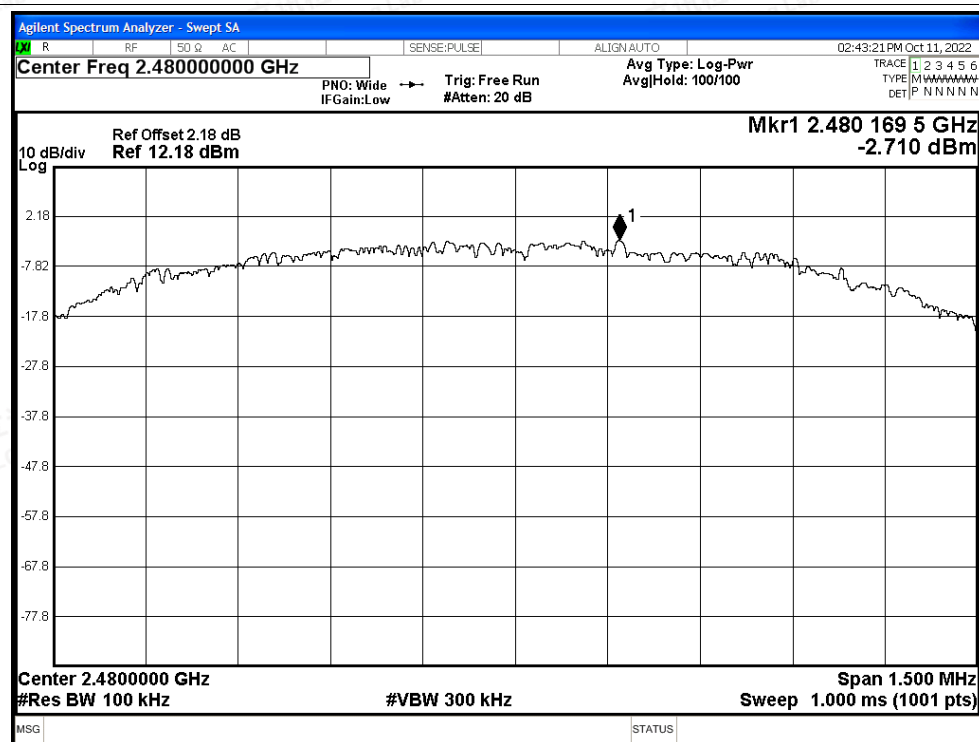


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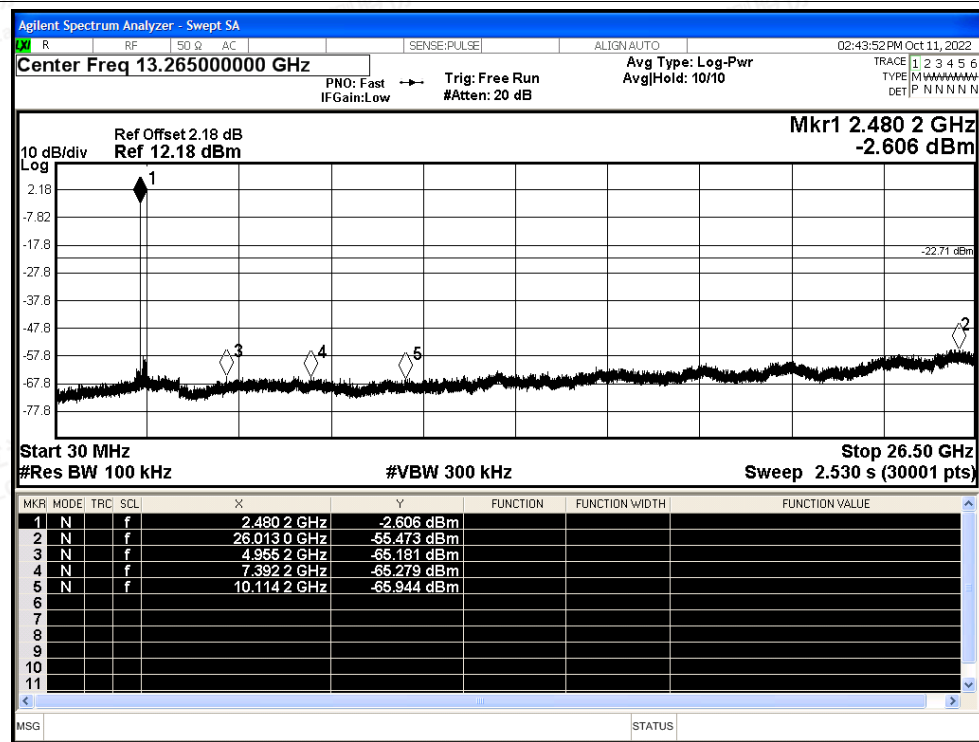




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

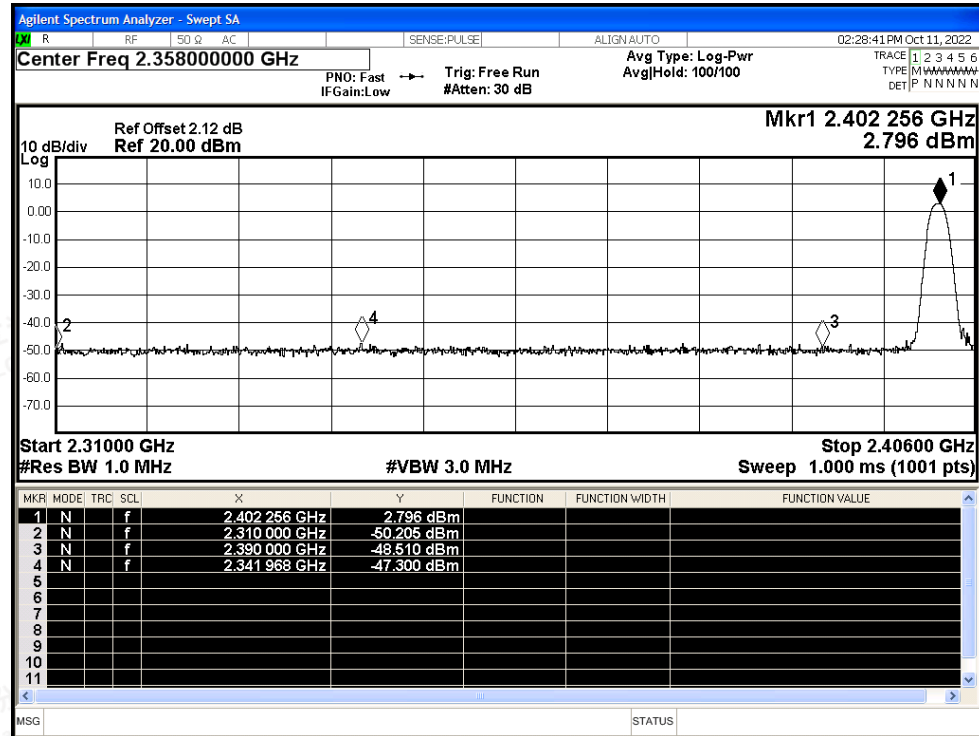
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.21	2.94	47.96	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.12	2.94	38.05	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2341.968	-47.3	2.94	50.87	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2322.096	-59.03	2.94	39.14	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-48.51	2.94	49.66	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-59.84	2.94	38.33	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.7	2.94	50.47	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.56	2.94	39.61	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.928	-36.63	2.94	61.54	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-58.56	2.94	39.61	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.73	2.94	48.44	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.67	2.94	38.50	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.94	2.94	47.23	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.31	2.94	37.86	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2363.376	-47.29	2.94	50.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2341.872	-59.68	2.94	38.49	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.58	2.94	47.59	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.01	2.94	38.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-40.2	2.94	57.97	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.41	2.94	39.76	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.976	-36.35	2.94	61.82	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-58.37	2.94	39.80	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.83	2.94	47.34	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-59.63	2.94	38.54	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.37	2.94	46.80	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.38	2.94	37.79	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2388.24	-46.81	2.94	51.36	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.584	-59.6	2.94	38.57	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-46.86	2.94	51.31	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-59.81	2.94	38.36	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-46.47	2.94	51.70	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.03	2.94	40.14	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.144	-36.68	2.94	61.49	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.536	-57.99	2.94	40.18	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.41	2.94	47.76	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.73	2.94	38.44	Average	54	Pass



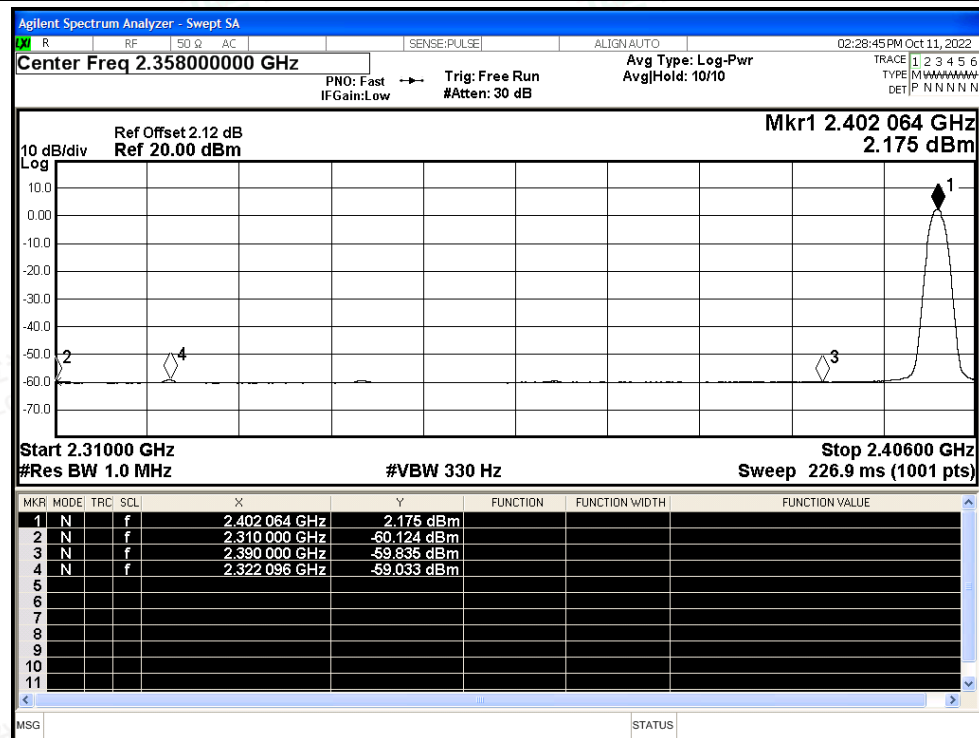


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

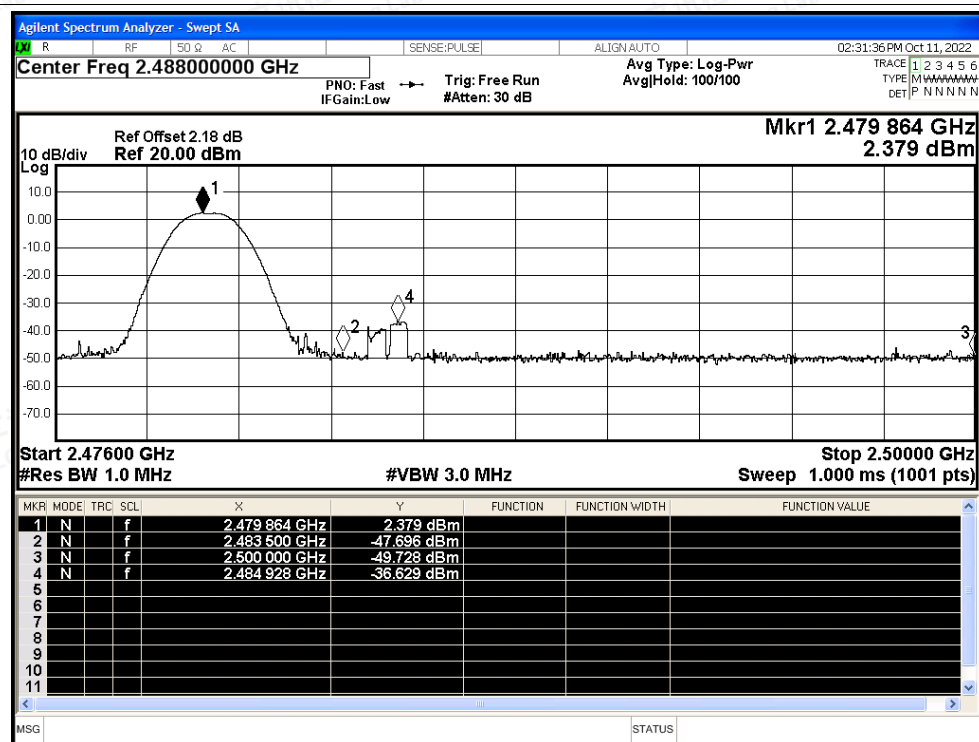


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

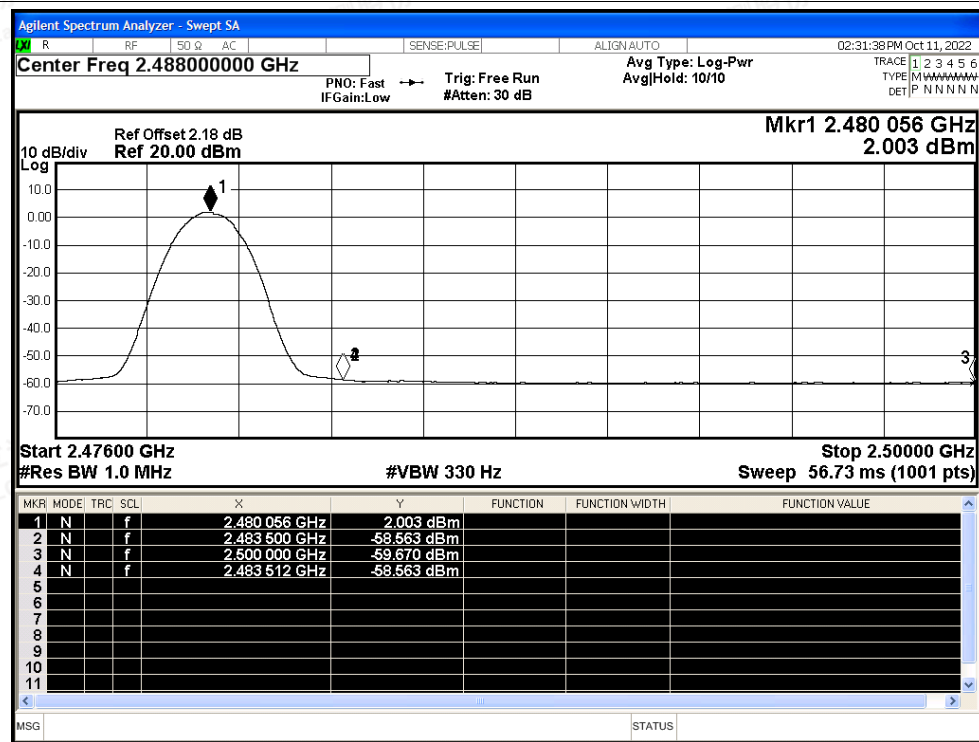




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

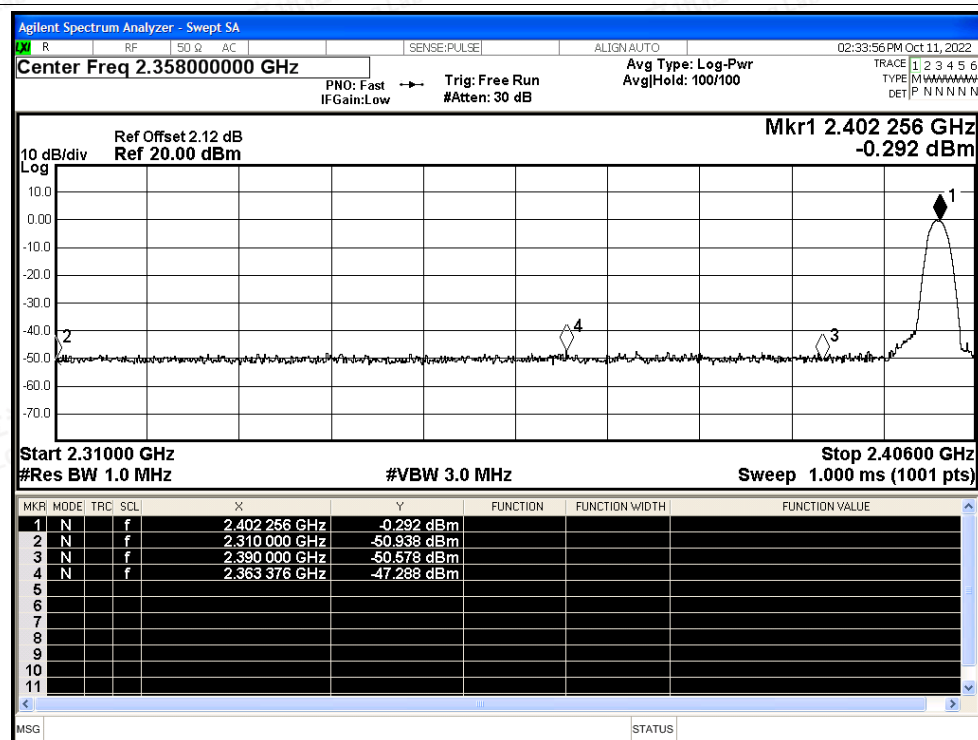


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

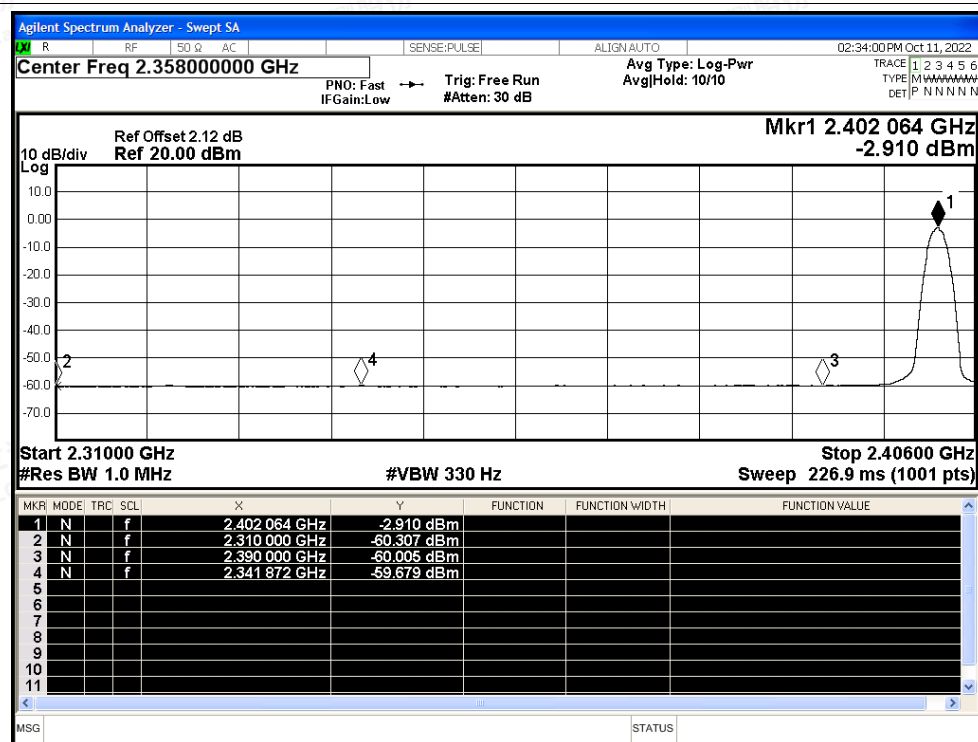




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

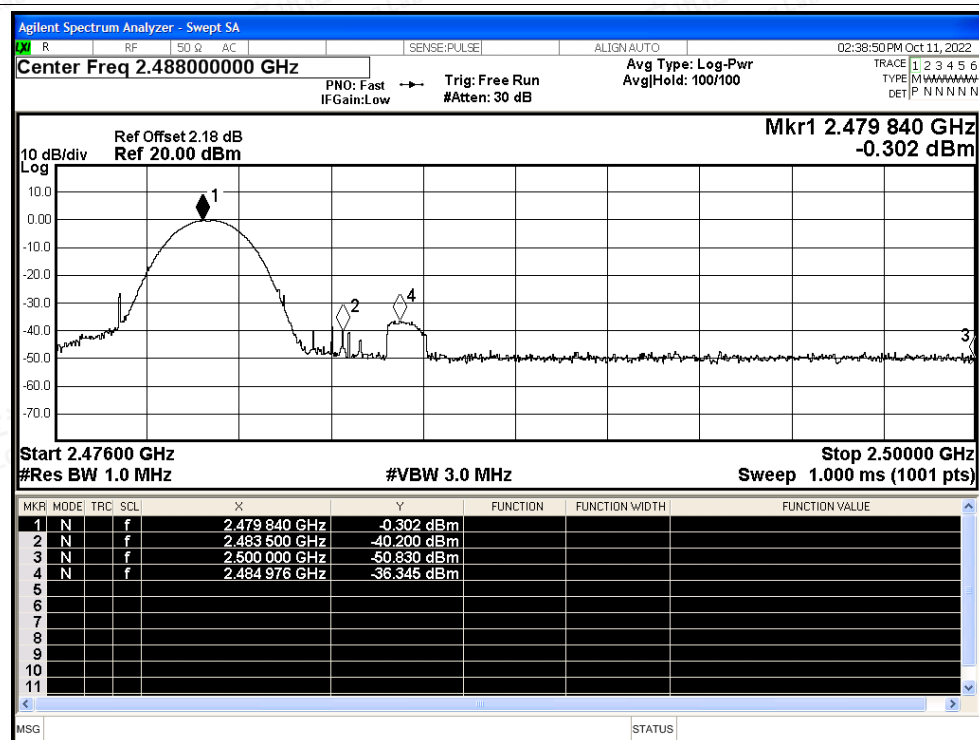


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

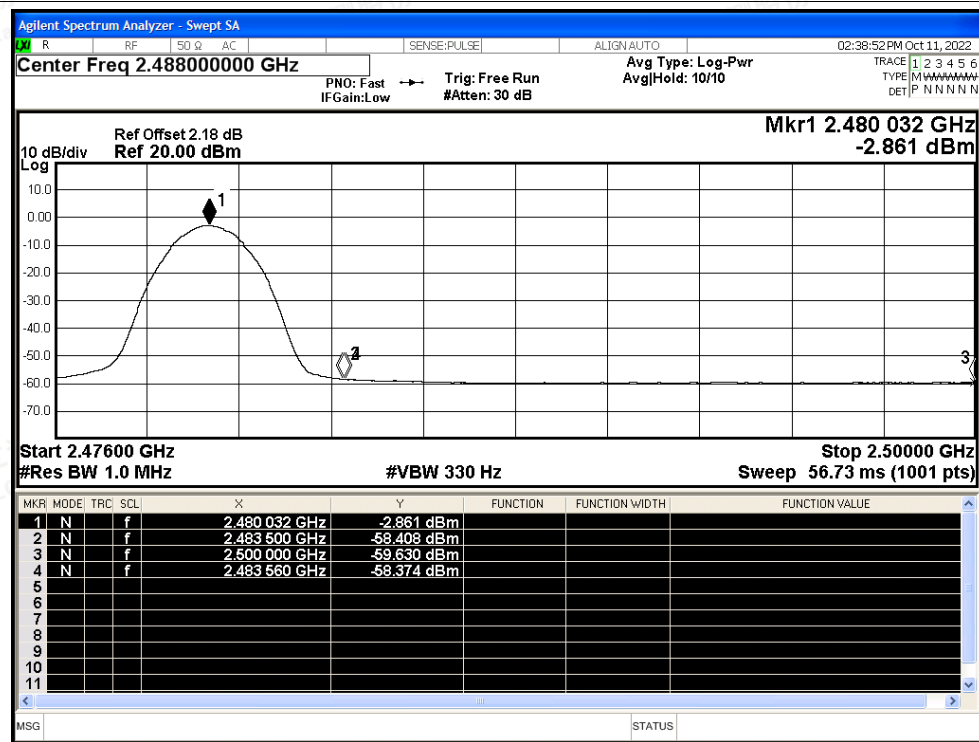




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

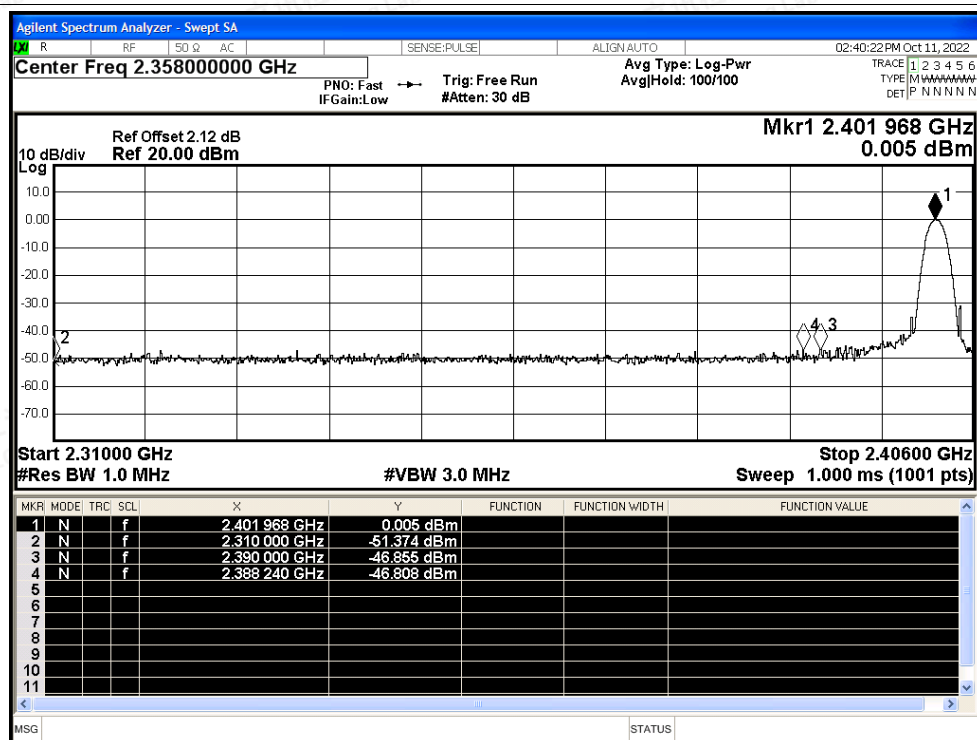


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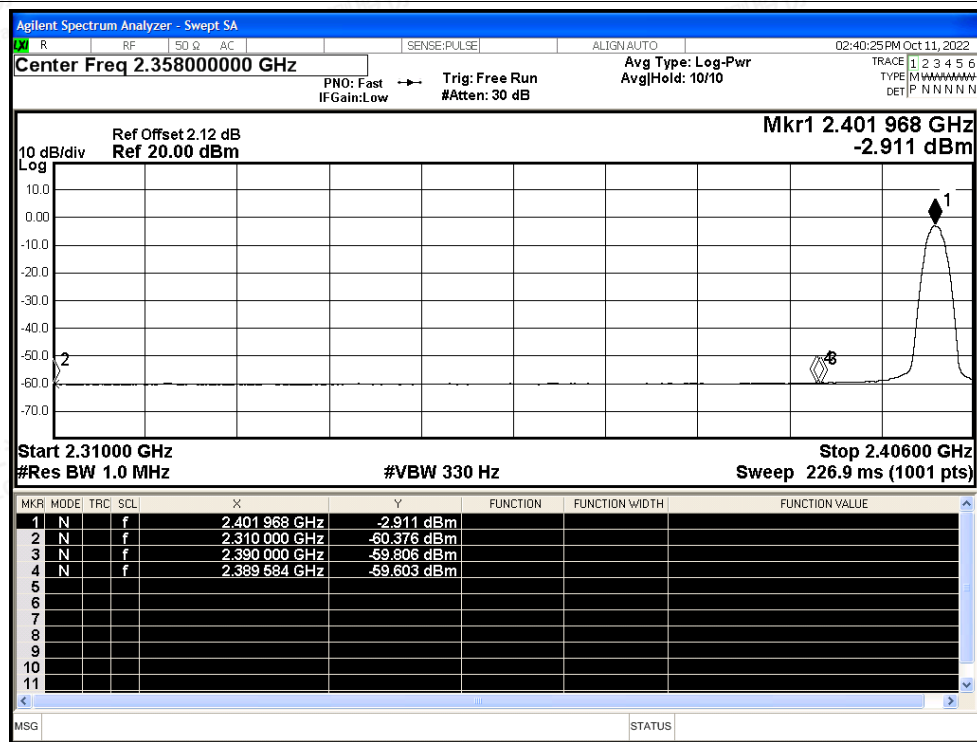




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

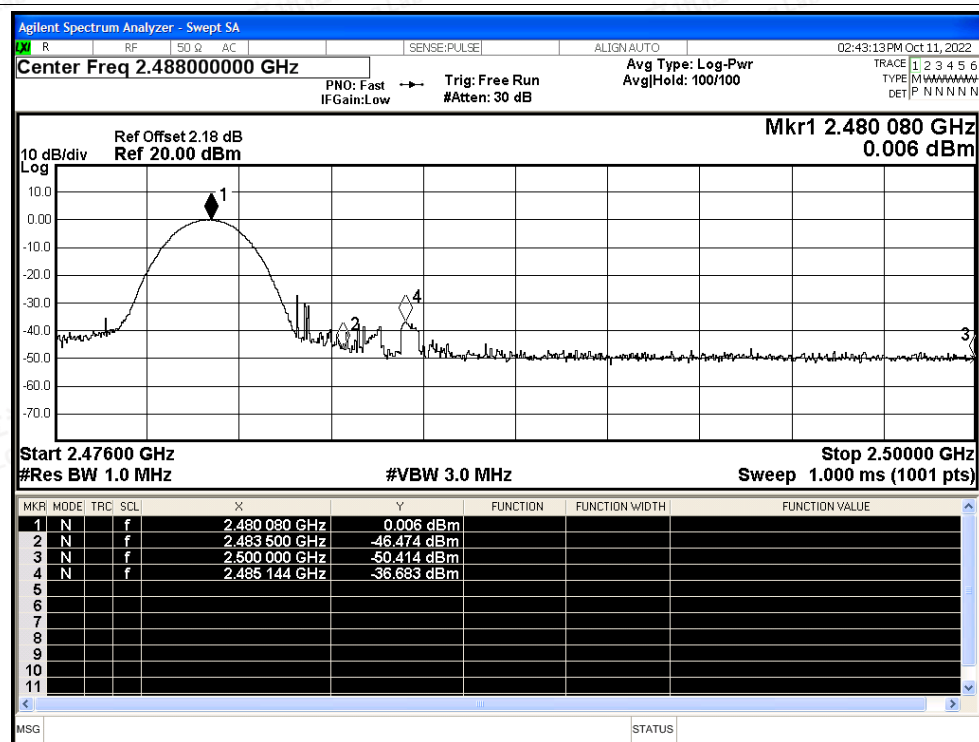


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

